FILE NOTATIONS

Entered in N I D File ✓
Entered On S R Sheet
Location Map Pinned ✓
Card Indexed ✓
I W R for State or Fee Land

Checked by Chief PMB
Copy N I D to Field Office ✓
Approval Letter Dec 6 1965
Disapproval Letter

COMPLETION DATA:

Date Well Completed 9-30-64
OW ✓ WW TA
GW ✓ OS PA

Location Inspected
Bond released
State of Fee Land

LOGS FILED

Driller's Log 1-14-65
Electric Logs (No.) 2
E I E-I ✓ GR GR-N Micro ✓
Lat Mi-L Sonic / Others

Copy hlc

Form 9-331a
(Feb. 1951)

X	10		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Form Approved.
Land Office Utah
Lease No. U-029649
Unit White River

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 31, 1964

White River
Well No. 17-10 is located 2010 ft. from {N} line and 698 ft. from {W} line of sec. 10

SE SW NW ~~SE NW~~ Sec. 10 (¼ Sec. and Sec. No.) | 8S (Twp.) | 22E (Range) | SLB&M (Meridian)

White River Unit (Field) | Uintah (County or Subdivision) | Utah (State or Territory)

Development ground, ungraded
The elevation of the ~~derrick floor~~ above sea level is 4937 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill a well to test the Green River formation to approximately 5900'. Surface casing will consist of 8 5/8" 24# J-55 casing set at 200' and cemented to surface.

All productive zones will be tested, and if commercial production is encountered a production string of 5½" 15.5# J-55 casing will be cemented with sufficient cement to protect all productive zones and water flows.

Anticipated Spud date, September 1, 1964
Verbal approval by Mr. Smith

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Belco Petroleum Corporation

Address 4255 Edward Drive
Salt Lake City, Utah

By A. Frisch

Title District Superintendent

GPO 914974

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-029649

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: WHITE RIVER UNIT

8. FARM OR LEASE NAME:

9. WELL NO.: 17-10

10. FIELD AND POOL, OR WILDCAT: White River

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 10-T8S-R22E SLB&M

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

1a. TYPE OF WELL: OIL WELL [XX] GAS WELL [XX] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [XX] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: SELCO PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR: 304 Main Street, Grand Junction, Colorado

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2010' FNL, 698' FWL, Sec. 10
At top prod. interval reported below
At total depth

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-2-64	9-16-64	9-30-64	4937' Gr., 4949' KB	4937'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5671'	5618'	Two	→	0-5671'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5530-5552' Green River - Oil

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: IES, Microlog, Gamma Correlation Collar Log

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24.00	201	13-3/4	175 sacks reg. w/2% CaCl2	None
5-1/2	15.5	5677	7-7/8	500 sacks 50-50 poz w/ 25 sacks salt, 1% TIC	None

CONFIDENTIAL

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	5519	5519

31. PERFORATION RECORD (*Interval, size and number*): 5544' Tandem radial jets (8 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5544	500 gal. MCA

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Sept. 30, 1964	Pumping - 2½"x2"x100" stroke	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-30-64	24			275	110	0	400

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
						28.6

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented

TEST WITNESSED BY: A. Frisch

35. LIST OF ATTACHMENTS: 1. Gas Compl. Report, 2. Well History, 3. Sample Description

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A Frisch TITLE Dists. Superintendent DATE 1-13-65

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River	2380'	
Wasatch	5661'	

JAN 14 1965

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other

b. TYPE OF COMPLETION:
NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface

At top prod. interval reported below

At total depth

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
WHITE RIVER UNIT

8. FARM OR LEASE NAME

9. WELL NO.
17-10

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY →	ROTARY TOOLS	CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)
4340-4360' Green River Gas

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

CONFIDENTIAL

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)
4349-54'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4349-54'	500 gal. MCA

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
12-31-64	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12-15-64	25	3/8		0-0	4085	-0-	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
	1202		-0-	4085	-0-	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)
Sold

TEST WITNESSED BY
R. Bates, J. Maxfield

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A. Frisch TITLE DATE

*(See Instructions and Spaces for Additional Data on Reverse Side)

WHITE RIVER #17-10

WELL HISTORY

DST #1 4343-4384' IH 2206, ISI 1969/27 min., IF 1043, FF 1582/60 min., FSI 1970/92 min., FH 2161. Gas to surface in 2 min., Max. 5500 MCFPD. Rec. 120' sl. mud-cut water.

DST #2 5523-5533' IH 2745, ISI 2285/59 min., IF 432, FF 642/59 min., FSI 2290/60 min., FH 2748. Gas to surface in 50 min. after final opening, too small to measure. Rec. 500' gas-cut oil, 80' gas- & sl. mud-cut oil. Tool partially plugging.

DST #3 5533-5552' IH 2814, ISI 2290/15 min., IF 309, FF 579/27 min., FSI 2296/34 min., FH 2804. Gas to surface in 11 min. Rec. 2100' gas-cut oil.

Moved in completion unit on Sept. 25, 1964. Picked up 2-7/8" tubing with bit and scraper. Drilled stage collar at 4418' and cleaned out to 5618' KB. Ran gamma correlation log. Perforated with tandem radial jets at 5544' (8 Holes). Ran tubing and rods. Rig released on 9-29-64. Put on pump Sept. 30, 1964.

Moved in completion unit on Dec. 7, 1964. Killed well, pulled rods and tubing. Perforated 4349-54' with 4 jets/ft. Ran tubing with Baker Model "D" Packer at 5519' KB. Circulating sleeve at 5488', seating nipple at 5457'. Acidized perfs at 4349-54' with 500 gal. 15% MCA. Swabbed well in and measured gas at 4.2 MMCFPD. Closed sliding sleeve and acidized perfs at 5544' with 500 gal. MCA. Swabbed well in and ran rods.

Released completion unit on Dec. 13, 1964.

BELCO PETROLEUM CORPORATION
WHITE RIVER UNIT NO. 17-10
1980' F/N & 660' F/W
SECTION 10, T8S, R22E
UINTAH COUNTY, UTAH

SAMPLE DESCRIPTION

FROM	TO	LITHOLOGY
4300'	4320'	Sh, gy-brn, dns, hd, & dol in pt; Tr slt st, gy-buff, hd, calc, 5% ss wh-tan, v fn to silty, hd, calc, Tr ostracods, v/dull yell fluor, No stain, faint cut.
4320'	4340'	Sh & slt st AA; w/15% ss AA.
4340'	4360'	Ss, gy-gn, v fn-med, sub rd-ang, well cmt to fri, highly calc, no fluor, stain or cut. DST #1 4343'-4348' FV 5,400 MCF in 1 hr.
4360'	4390'	Sh gy-brn, hd, dns, dol in pt, sli silty; slt st, brn, hd, sli calc; ss AA 5% No fluor or stain.
4390'	4410'	Sh & slt st AA w/wide scatt [illegible] ss.
4410'	4420'	Sh & slt st AA w/approx 5% ss, buff to tan, v fn-silty, rd, cons, calc, scatt ostracods, dul yell fluor, Tr stn, poor cut.
4420'	4450'	AA
4450'	4460'	Sh AA w 20% ss, brn-wh-gy, fn-silty rd-sub rd, cons, calc, dull yell fluor, No stain, Tr cut
4460'	4480'	Sh AA w/tr ss AA bec quite silty
4480'	4510'	Sh & slt st AA w/approx 5% ss, buff-tan, v fn-silty, cons, calc, dull yell fluor, poor cut, tr stn
4510'	4520'	Ss, wh-tan, fn-silty, sub ang-sub rd, cons calc, good yell fluor in pt, fair cut, tr stn, 50%; Sh & slt st AA.
4520'	4540'	Sh, gy-brn, Tr gn & rd, hd, britt, sli calc, silty; slt st, gy-buff, hd, sli calc, Tr ss AA
4540'	4560'	Ss, wh to gy-gn, med-v fn, cons-fri, ang-sub rd, calc, No fluor or stain.
4560'	4600'	Sh, brn-gy w/tr red-gn, hd, sli calc, dns, sli silty in pt, Tr ss & slt st AA.
4600'	4620'	AA
4620'	4640'	Slt st, buff-brn, soft-hd, cons, calc, scatt to strkd, dullyell fluor, no stn, faint cut.
4640'	4700'	Sh, brn-gy-gn, w/Tr red, hd, sli calc, dns; Slt st, by-buff, hd, sli calc.

4700'	4720'	Sh AA, w/scatt ss grading to slt st, gy-buff, v fn-slty, rd, cons, h&t, dirty, calc, dull yell fluor, tr stn fair to poor cut.
4720'	4750'	Sh AA w/tr sndy-slt st AA
4750'	4760'	AA w/scatt ostracods.
4760'	4780'	Sh AA w/15-20% slt st & v fn ss, gy to buff, sub-ang-rd, cons to sli fri, sli calc, good yell fluor, no stn, poor to fair cut, abnt ostracods.
4780'	4800'	Sh, brn-gy to gy-blk, hd, dns, sli calc, slty in pt, tr slt st AA.
4800'	4850'	Sh, gy to gy-gn, hd, sli calc, silty in pt.
4850'	4870'	Pred sh AA w/15-20% ss to slt st, buff to gy-wh, v fn to silty, rd-sub ang, well cons, no fluor or stn.
4870'	4880'	Sh Aa w/tr ss AA.
4880'	4960'	Sh, gy to gy-gn, hd, sli calc, silty in pt w/5 to 15% slt st, buff to gy-wh, h&t, well cons, sli-calc, no fluor or stn.
4960'	4990'	Sh, gy-gy-gn w/tr brn, hd, limy to silty in pt, sli calc; 5-10% slt st, buff to gy, cons, calc, no show.
4990'	5010'	Sh AA w/5-15% ss, tan to gy-wh, v fn to sli silty, h&t, tr dull yell fluor, no stn, faint cut.
5010'	5040'	Pred sh AA w/tr scatt ss AA.
5040'	5060'	Sh & slt st AA w/15-20% ss, wh-lt gy, vfn, sub ang to rd, cons, cln in pt, h&t, sli calc, no fluor or stain.
5060'	5100'	Sh AA w/5% ss gy to lt brn, slty in pt, v fn, subang, re, cons, sli calc, No show.
5100'	5150'	Sh AA w/slt st, gy, hd, sli calc , no show, 30-40% sh & slt st AA w/60% slt st.
5150'	5170'	Sh & slt st AA w/60% slt st
5170'	5190'	Sh AA w/ss wh to gn-gy, ang-sug rd, h&t, cons, highly calc, grades to brn slt st, both have bright to dull yell fluor, well scatt but abnt, fair to good cut after 5-10 min, poor pososity & probably no perm; 50-60%; Jc sand.
5190'	5230'	Sh pred gy to gy-grn, s/brn, hd to sh brittle, v/sli calc, grades to slt st in pt, 50%; slt st by to lt brn, sli sandy in pt, sli calc, no show.
5230'	5260'	Sh AA w/slt st grading to v vf ss, lt gy to tan, slty to v fn, rd to sub rd cons, h&t, sli calc, tr fluor, poor to fair cut, no stn.
5260'	5280'	Sh & slt st AA bec more slt st, 50%.

5280'	5310'	Sh AA w/70 to 80% ss, v fn to silty, buff to gy, sub and to sub-rd, cons, h&t no vis por or perm, sli calc, dirty, poorly sort, scatt bright yell fluor, tr stn, poor to fair cut.
5310'	5380'	Sh AA; slt st tan to gy-blk, hd, limy, scatt fluor, poor to no cut.
5380'	5390'	Sh & slt AA w/50%, ss, wh to gy-grn, silty to v fn, sub ang-sub rd, well cons, calc, h&t, dull yellow fluor, fair to good cut in t minutes, no stn.
5390'	5530'	Sh, gy to gy-grn to brn, dns, hd,silty, sli calc; slt st, tan to gy, h&t, sli calc, scatt yell fluor, faint cut: 0-5% ss, buff to gy, s/brn, v fn to silty, sub ang-rd, cons, calc h&t, dirty, tr ostracods, in ss, tr yell fluor & stn, poor to no cut.
5530'	5560'	Ss, 25 to 50%, lt-drk gy to wh, fn to med, any-sub ang, well cons, sli calc; in pt ostracods, v fn to few c, limy clay mtrx, good bright yell fluor, tr brn stn, good to strong cut,poor samples after trip & test @ 5533'. Sh AA.
5560'	5570'	Sh & ss AA w/no fluor or stn, bec silty to v fn.
5570'	5580'	Sh, gy-blk to drk brn, hd, dns, brittle, sli calc & slt st & scatt ss AA, 90% sh.
5580'	5600'	Ss, gy-wh, any-sub ang, sli calc to silc; no show, ls, tan-buff, dolomitic, w/ostracods; sh & slt st AA.
5600'	5630'	AA w/sli incr in sh.
5630'	5660'	Sh AA w/slt st, gy to buff, hd sli calc.
5660'	5671'	Sh, vari-col, soft, calc, top Wasatch 5661'.

BELCO PETROLEUM
CORPORATION

P. O. Box 302 BIG PINEY, WYOMING
TELEPHONES 8131 242-7202

304 Main Street, Room 1
Grand Junction, Colorado

January 26, 1965

Mr. Rodney Smith
District Engineer
U. S. Geological Survey
8416 Federal Building
Salt Lake City, Utah

Dear Sir:

Belco Petroleum Corporation hereby releases all information on the White River Unit wells in Uintah County, Utah.

Thank you for your help and consideration in restricting the information on these wells.

Very truly yours,

BELCO PETROLEUM CORPORATION

A. Frisch

A. Frisch
District Superintendent

AF:gl

February 23, 1965

Belco Petroleum Corporation
304 Main Street Room #1
Grand Junction, Colorado

Re: Well Nos. White River Unit #17-10, White River Unit #15-9, Uintah County, Utah.

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

cnp

Enclosure

FORM OGCC-8-X

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: WHITE RIVER UNIT #17-10

Operator BELCO PETROLEUM CORPORATION Address Grand Junction, Colorado Phone 242-7202

Contractor EXETER DRILLING CO. Address Denver, Colorado Phone _____

Location ___ ¼ ___ ¼ Sec. 10 T. 8 N S R. 22 E W Uintah County, Utah.

Water Sands: NONE

Depth		Volume	Quality
From	To	Flow Rate or Head	Fresh or Salty
1.			
2.			
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

Green River	-	2300'
Wasatch	-	5661'

Remarks:

NOTE: (a) Upon diminishing supply of forms, please inform the Commission
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form)
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

BELCO DEVELOPMENT CORPORATION
DAILY DRILLING REPORT
Friday, April 10, 1981

VERNAL DISTRICT

DEVELOPMENT WELLS

DC 4-17 (DW-GAS)
Duck Creek Field
Uintah County, Utah
TD 7331' Wasatch
Chandler Rig #1
Belco WI 100%

6391' (55') 37. Drilling, Wasatch.
Drld 55' in 13½ hrs.
Bit #10, 6¼", F-2, jets open, 55' in 13½ hrs.
PP-1250 WT-25 RPM-54
Mud prop: MW-10.2 VIS-34 WL-9.8 Chl-162,000
BG-40 CG-40 Trip gas 1900
Drlg Brks:
6360'-66' (6') 20- 7 -20 40/20
Trace dull gold flo, weak cut.
Drld hard cmt above plug 5117' to 5126'.
Drld plug @ 5126', drld shoe @ 5176', 5 hrs.
Washed 57' to bottom 6279' to 6336'.
AFE (csg pt) $298,000
CUM cost $533,801

BB 1-15GR (DW-OIL)
Brennan Bottoms
Uintah County, Utah
TD 7652' GR
Chandler Rig #1
Belco WI 100%

RAM Oilfied Service drlg rat & mouse hole.
CUM cost $20,000

WORKOVER

WRU 17-10 (DW-OIL)
White River Unit
Uintah County, Utah
Green River
Utah Well Service
Belco WI 100%

Report #1.
MI & RU. TOH w/ 3 rods. Body break in #4 3" rod.
TIH w/fishing tools, catch fish, unseat pump,
pump 50 bbls hot wtr down tbg, POH w/rods & pump.
TIH w/ pump. Unable
to get past paraffin @ 300'. SDFN.
This a.m.: Will hot oil tbg & complete TIH.
CUM cost $3800

M. RANDY HUBER
P.O. Box 275 Roosevelt, Utah 84066
Bus: (801) 722-9991 Res: (801) 722-3846
Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9717

FLOYD H. COLLETT
P.O. Box 275 Roosevelt, Utah 84066
Bus: (801) 722-9991 Res: (801) 722-3832
Radio Dispatch: (801) 722-4501 or (801) 789-4200 Unit 9711

HUCO CHEMICALS
OIL FIELD CHEMICALS

WATER ANALYSIS REPORT

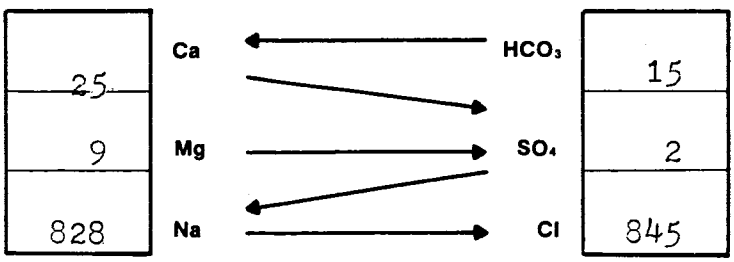
COMPANY Belnorth ADDRESS Vernal, Utah DATE: 4-13-84

SOURCE W.R.W.F. DATE SAMPLED 4-13-84 ANALYSIS NO. 1007

	Analysis	Mg/l (ppm)		*Meq/l	
1. PH	7.62				
2. H_2S (Qualitative)	19.5				
3. Specific Gravity	1.025				
4. Dissolved Solids		50,680			
5. Suspended Solids					
6. Anaerobic Bacterial Count	1-9 C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)		760			
8. Bicarbonate (HCO_3)		HCO_3 930	÷61	15	HCO_3
9. Chlorides (Cl)		Cl 30,000	÷35.5	845	Cl
10. Sulfates (SO_4)		SO_4 100	÷48	2	SO_4
11. Calcium (Ca)		Ca 492	÷20	25	Ca
12. Magnesium (Mg)		Mg 114	÷12.2	9	Mg
13. Total Hardness ($CaCO_3$)		1,700			
14. Total Iron (Fe)		0.5			
15. Barium (Qualitative)		0.0			
16. Phosphate Residuals		18.5			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	15	1,215
$CaSO_4$	68.07	2	136
$CaCl_2$	55.50	8	444
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62	9	428
$NaHCO_3$	84.00		
Na_2SO_4	71.03		
NaCl	58.46	828	48,404

REMARKS Analysis indicates that a CaCO3 (Calcium Carbonate) scaling condition exist in this water. This water is treated at the 'B' Battery for scale. Batch treat injection water tank monthly with Corexit 7676 & Corexit 7675 biocides. Alternat 5 gals. per treatment

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5)

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF
BELCO DEVELOPMENT CORPORATION

ADDRESS P.O. BOX X
VERNAL, UTAH ZIP 84078

INDIVIDUAL ___ PARTNERSHIP ___ CORPORTATION X

FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR INJECT FLUID INTO THE WRU 17 WELL
SEC. 10 TWP. 8S RANGE 22E
UINTAH COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL [X]
DISPOSAL WELL [ ]

APPLICATION

Comes now the applicant and shows the Division the following:

1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name	Well No.	Field	County
WHITE RIVER UNIT	17	WHITE RIVER FIELD	UINTAH

Location of Enhanced Recovery Injection or Disposal Well 2010'FNL&698'FWL Sec. 10 Twp. 8S Rge. 22E

New Well To Be Drilled	Old Well To Be Converted	Casing Test
Yes ☐ No ☒	Yes ☒ No ☐	Yes ☒ No ☐ Date Prior to inj

Depth-Base Lowest Known Fresh Water Within ½ Mile	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile	State What
N/A	YES ☐ NO ☐	OIL

Location of Injection Source(s)	Geologic Name(s) and Depth of Source(s)
WHITE RIVER UNIT "B" BATTERY WATERFLOOD Sec 9, T8S,R22E	Greenriver 4948-94' +5600'

Geologic Name of Injection Zone	Depth of Injection Interval
Greenriver	5528' to 5552'

a. Top of the Perforated Interval:	b. Base of Fresh Water:	c. Intervening Thickness (a minus b)
5528'	180'	5348'

Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES XX NO

Lithology of Intervening Zones: Sand and shale

Injection Rates and Pressures
Maximum 500 B/D
2,000 PSI

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

Bureau of Land Management 170 South 500 East, Vernal, Utah 84078

State of Utah)
County of Uintah)

J. C. Ball
Applicant

Before me, the undersigned authority, on this day personally appeared J. C. Ball known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 19th day of July, 19 84

SEAL

Kathy Knutson
Notary Public in and for Uintah County, Utah

My commission expires July 29, 1985

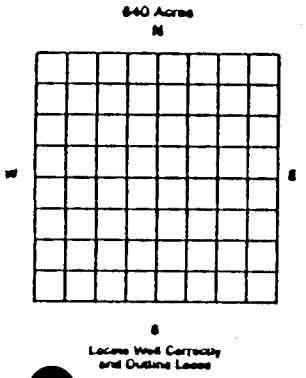
(OVER)

(To be filed within 30 days after drilling is completed)

COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY
DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

API NO



COUNTY Uintah SEC. 10 TWP. 8S RGE. 22E

COMPANY OPERATING Belco Development Corporation

OFFICE ADDRESS P.O. Box X

TOWN Vernal STATE ZIP Utah 84078

FARM NAME White River WELL NO. 17-10

DRILLING STARTED 9/2 19 64 DRILLING FINISHED 9/16 19 64

DATE OF FIRST PRODUCTION 9-30-64 COMPLETED 9-29-64

WELL LOCATED ___ ¼ SW ¼ NE ¼

3270' FT. FROM SL OF ¼ SEC. & 698' FT. FROM WL OF ¼ SEC.

ELEVATION DERRICK FLOOR 4949' GROUND 4937'

TYPE COMPLETION

Single Zone X Order No. ___

Multiple Zone ___ Order No. ___

Comingled ___ Order No. ___

LOCATION EXCEPTION Order No. ___ Penalty ___

OIL OR GAS ZONES

Name	From	To	Name	From	To
Greenriver	5528	5552'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
8 5/8"	24.0#	K-55	201'		175	201'	Surface
5 1/2"	15.5#	K-55	5677'		500		NR

TOTAL DEPTH ___

PACKERS SET DEPTH None at present

	1	2	3
FORMATION	Green River		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	Oil		
PERFORATED	5544-45'		
	4349-54'		
INTERVALS			
ACIDIZED?			
FRACTURE TREATED?			

INITIAL TEST DATA

Date			
Oil, bbl./day			
Oil Gravity			
Gas, Cu. Ft./day	CF	CF	
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day			
Pumping or Flowing			
CHOKE SIZE			
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and com according to the records of this office and to the best of my knowledge and belief.

Telephone 801-789-0790 J. Bell DISTRICT ENGINEER
Name and title of representative of company

Subscribed and sworn before me this 19th day of July, 19 84.

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE I-5)

FORM NO. DOGM-UIC-1

IN THE MATTER OF THE APPLICATION OF
BELCO DEVELOPMENT CORPORATION
ADDRESS P.O. BOX X
VERNAL, UTAH ZIP 84078
INDIVIDUAL___ PARTNERSHIP___ CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE WRU #19 WELL
SEC. 9 TWP. 8S RANGE 22E
UINTAH COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐

APPLICATION

Comes now the applicant and shows the Division the following:
1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name	Well No.	Field	County
WHITE RIVER UNIT	19-9	WHITE RIVER FIELD	UINTAH

Location of Enhanced Recovery Injection or Disposal Well 2019'FNL&1869'FEL Sec. 9 Twp. 8S Rge 22E

New Well To Be Drilled	Old Well To Be Converted	Casing Test
Yes ☐ No ☒	Yes ☒ No ☐	Yes ☐ No ☐ Date When converted

Depth-Base Lowest Known Fresh Water Within ½ Mile	Does Injection Zone Contain Oil-Gas-Fresh Water Within ½ Mile	State What
NA	YES ☒ NO ☐	OIL

Location of Injection Source(s)	Geologic Name(s) and Depth of Source(s)
WHITE RIVER UNIT "B" BATTERY WATERFLOOD, SEC 9, T8S, R22E	Greenriver 4448-94' +5600'

Geologic Name of Injection Zone	Depth of Injection Interval
Greenriver	5630 to 50'

a. Top of the Perforated Interval:	b. Base of Fresh Water:	c. Intervening Thickness (a minus b)
5630'	180'	5450'

Is the intervening thickness sufficient to show fresh water will be protected without additional data? YES XX NO

Lithology of Intervening Zones: Sand and shale

Injection Rates and Pressures
Maximum 500 B/D
2,000 PSI

The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent

Bureau of Land Management, 170 South 500 East, Vernal, Utah 84078

State of Utah)
County of Uintah)

J.C. Ball
Applicant

Before me, the undersigned authority, on this day personally appeared J. C. Ball known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Suscribed and sworn to before me this 19th day of July, 19 84.

SEAL

Kathy Knutson
Notary Public in and for Uintah County, Utah

My commission expires July 29, 1985

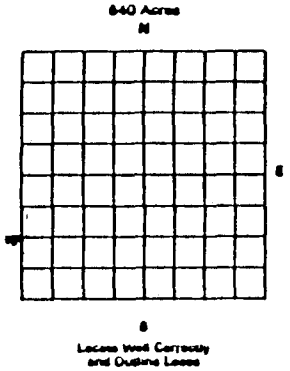
(OVER)

(To be filed within 30 days after drilling is completed)

COUNTY LEASE NO.

DEPARTMENT OF NATURAL RESOURCES AND ENERGY
DIVISION OF OIL, GAS, AND MINING
Room 4241 State Office Building
Salt Lake City, Utah 84114

API NO



COUNTY Uintah SEC. 9 TWP. 8S RGE. 22E

COMPANY OPERATING Belco Development Corporation

OFFICE ADDRESS P.O. Box X

TOWN Vernal STATE ZIP Utah 84078

FARM NAME White River WELL NO. 19-9

DRILLING STARTED 10/5 1964 DRILLING FINISHED 10/17 19 64

DATE OF FIRST PRODUCTION 12/24/64 COMPLETED 12/23/64

WELL LOCATED ¼ SW ¼ NE ¼

3261' FT. FROM SL OF ¼ SEC. & 3411' FT. FROM WL OF ¼ SEC.

ELEVATION DERRICK FLOOR 5023' GROUND 5011'

TYPE COMPLETION X

Single Zone _____ Order No. _____

Multiple Zone _____ Order No. _____

Comingled _____ Order No. _____

LOCATION EXCEPTION Order No. _____ Penalty _____

OIL OR GAS ZONES

Name	From	To	Name	From	To
Greenriver	5630'	50'			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Sax	Fillup	Top
8 5/8"	24.0#	K-55	192'		165	165	Surface
5 1/2"	15.5#	K-55	5728'		325	1788	3940

TOTAL DEPTH 5728

PACKERS SET DEPTH None at present

	1	2	3
FORMATION	Greenriver		
SPACING & SPACING ORDER NO.			
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	OIL		
PERFORATED INTERVALS	5630-32' 5477-79' 5678-83'		
ACIDIZED?			
FRACTURE TREATED?			

INITIAL TEST DATA

Date			
Oil, bbl./day			
Oil Gravity			
Gas, Cu. Ft./day	CF	CF	
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day			
Pumping or Flowing			
CHOKE SIZE			
FLOW TUBING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and compl according to the records of this office and to the best of my knowledge and belief.

Telephone 801-789-0790 J. A. Bell DISTRICT ENGINEER
Name and title of representative of company

Subscribed and sworn before me this 19th day of July, 19 84.

RECEIVED

JUL 23 1984

DIVISION OF OIL
GAS & MINING

BelNorth
Petroleum
Corporation

We work for America.

July 19, 1984

State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

SUBJECT: Proposed Injection Well
White River Unit
Uintah County, Utah

Attn: Mr. Gilbert Hunt

Belco Development Corporation currently operates the White River Unit located in Sections 9 and 10, T8S, R22E, Uintah County, Utah. Approval is requested to change injection wells. Currently water is being injected into the Greenriver formation through wells WRU 29, 30, and 33. It is proposed to cease injecting water into these wells and convert the WRU 17 and 19 to injection.

Form No, DOGM UIC 1 for these two wells has been completed and is attached. Form UIC 2 is also attached along with a water analysis of the proposed injection fluid. An analysis of fresh water in the area is not submitted as there are no known fresh water wells within one mile. A plat of the wells in the vicinity is also attached. An electric log is not included as it is believed that the State has a log on file. If this is not the case, please advise and a log will be sent. A copy of the application has been sent to the BLM as the landowner.

The following work is necessary for the wells to become injectors.

1. WRU 17 - It is proposed to cement squeeze the perforations at 4349' and pressure test the well casing to 500 psi. A model G Baker packer is to be set in tension just above the Baker Model D packer set at 5519'.

2. WRU 19 - It is proposed to set a CIBP at 5660' to plug off perforations 5678'-83'. Perforations 5477'-79' will be squeezed with cement and casing pressure tested to 500 psi. A Baker model G packer will be set at ±5550' in tension.

An early approval would be appreciated as this work will commence upon governmental approval. If there are any questions or additional information required, please contact me at 789-0790 in Vernal.

Very truly yours,

J. C. Ball
District Engineer

JCB/kk

P.O. Box X Vernal, Utah 84078 Telephone (801) 789-0790

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

August 6, 1984

Newspaper Agency
Legal Advertizing
143 South Main
Mezzanine Floor
Salt Lake City, Utah 84111

RE: Cause Nos. 41 & 42

Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 14th day of August. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

Marjorie Larson

MARJORIE L. LARSON
Administrative Assistant

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

August 6, 1984

Vernal Express
Legal Advertizing
Vernal, Utah 84078

RE: Cause Nos. 41 & 42

Gentlemen:

Attached hereto is a Notice of Application of Administrative Approval, before the Division of Oil, Gas and Mining, Department of Natural Resources, State of Utah.

It is requested that this notice be published ONCE ONLY, as soon as possible but no later than the 14th day of August. In the event that said notice cannot be published by this date, please notify this office immediately by calling 533-5771.

Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

Very truly yours,
DIVISION OF OIL, GAS AND MINING

Marlayne Larsen
for
MARJORIE L. LARSON
Administrative Assistant

UIC Cause No. 42

Sent to the following:

Utah State Department of Health
Water Pollution Control
Attn Jerry Riding
150 W.N. Temple
Salt Lake City, Utah 84114

U.S. Environmental Protection
1860 Lincoln Street
ATTN: Mike Strieby
Denver, Colroado 80925

Vernal Express
Legal Advertizing
Vernal, Utah 84078

Newspaper Agency
Legal Advertizin
143 South Main
Mezzanine Floor
Salt Lake City, Utah 84111

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Bureau of Land Management
Branch of Fluid Minerals
U-(922)
University Club Building
136 East South Temple
Salt Lake City, Utah 84111
ATTN: Ed Gwynn

Belnorth Petroleum Corporation
P O Box X
Vernal, Utah 84078

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF BELNORTH PETROLEUM CORPORATION, FOR ADMINISTRATIVE APPROVAL TO INJECT WATER INTO CERTAIN WELLS LOCATED IN THE WHITE RIVER UNIT, UINTAH COUNTY, UTAH : CAUSE NO. UIC-041

---ooOoo---

THE STATE OF UTAH TO ALL INTERESTED PARTIES IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that Belnorth Petroleum Corporation, P.O. Box X, Vernal, Utah, 84078, has requested administrative approval from the Division to convert the wells mentioned below, to enhanced recovery water injection wells as follows:

Well #17-10

Township 8 South, Range 22 East, Section 10, SW/NE
Injection Interval: Green River Formation 5528' to 5552'

Well #19-9

Township 8 South, Range 22 East, Section 9, SW/NE
Injection Interval: Green River Formation 5630' to 5650'

MAXIMUM INJECTION PRESSURE: 2000 psi
MAXIMUM INJECTION RATE: 500 Barrels per day

This application will be granted unless objections are filed with the Division of Oil, Gas and Mining within fifteen days after publication of this Notice. Objections, if any, should be mailed to: Division of Oil, Gas and Mining, 4241 State Office Building, Salt Lake City, Utah 84114.

DATED this 3rd day of August, 1984.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

Marjorie L. Larson
MARJORIE L. LARSON
Administrative Assistant

WATER INJECTION

INJECTION WELL APPLICATION CHECKLIST

COMPANY Belnorth ~~(Belco)~~

WELL # 17 & 19 LOCATION Sec. 10, 9 T. 8S R. 22E

DATE RECEIVED 7/23/84

LEGAL/ADMINISTRATIVE _____

TECHNICAL ADEQUACY ~~OK~~

PUBLICATION 8-14-84

CARD CHANGE _____

COMPUTER STATUS _____

APPROVAL STATUS 9-11-84

DENIAL REMARKS: _____

Publication verifications, area maps, logs in #19-9 White River Unit Sec9, T8S, R22E Uintah County

WATER INJECTION

Belnorth
#17, 19

CHECKLIST FOR INJECTION WELL APPLICATION

UIC Forms	✓
Plat	✓ lease holders?
Surface Owners and Lease Holders	BLM - lease holders? ½ mile inj. depth
Schematic Diagram	Cmt tops
Frac Gradient Information	? 2000 psi
Pressure and Rate Control	?
Fluid Source	✓
Analysis of Injected Fluid	✓
Geologic Information	✓
USDW in the Area	✓
Analysis of Injected Formation	✓
Contingency Plans	✓
Mechanical Integrity Test	* 580 psi too low should be 1000 psi
Aquifer Exemption	✓

* can stipulate on approval

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

September 8, 1984

Belnorth Petroleum Corporation
P.O. Box X
Vernal, Utah 84078

Gentlemen:

RE: Injection Well Approval - Cause No. UIC-041

White River Unit Well No. 17-10
Section 10, T8S, R22E, Uintah County, Utah

White River Unit Well No. 19-9
Section 9, T8S, R22E, Uintah County, Utah

Administrative approval is hereby granted to convert the above referenced wells to enhanced recovery water injection wells. This approval is conditional upon full compliance with the UIC rules and regulations adopted by the Board of Oil, Gas and Mining, and construction and operation of the well as outlined in the application submitted.

If you have any questions concerning this matter, please do not hesitate to call or write.

Best Regards,

Dianne R. Nielson

Dianne R. Nielson
Director

DN/CBF/mfp
010

BelNorth Petroleum Corporation
We work for America.

November 12, 1984

Bureau of Land Management
Vernal District
170 South 500 East
Vernal, Utah 84078

SUBJECT: Recompletion Report
White River Unit 17-10
Lease U-029649

Gentlemen:

Attached is the Recompletion Report for the above subject well that has been newly converted to a water injector for the White River Unit Waterflood. Approval for this procedure was received on August 15, 1984. Gibson Well Service moved on location and began the conversion on October 26, 1984 and work was complete November 9, 1984.

Very truly yours,

Kathy Knutson

Kathy Knutson
Engineering Clerk

/kk
attachments
0121A
cc: Division of Oil, Gas & Mining
Houston
Denver
Gulf Oil Corp
Files

ENRON
Oil & Gas Company #17 Sec 10 T8S R22E

P.O. Box X, Vernal, Utah 84078, Telephone (801) 789-0790

February 16, 1987

RECEIVED
FEB 20 1987
DIVISION OF
OIL, GAS & MINING

State of Utah
Division of Oil, Gas & Mining
355 W. North Temple
Salt Lake City, Utah

Attention: Ron Firth

Dear Mr. Firth:

This is to advise that Enron Oil and Gas has acquired the assets of the following companies:

Belco Development Corporation
Belco Petroleum - North America, Inc.
BelNorth Energy Corporation
BelNorth Petroleum Corporation
FEC Offshore Inventory Company
Florida Exploration Company
HNG Exploration Company
HNG Fossil Fuels Company
HNG Oil Company
HNG Oil (Sumatra) Inc.
IN Holdings, Inc.
InterNorth Exploration and Production Division
Ocelot Oil Company
Smitheastern Exploration Company

It is requested that all leases and well names be changed to reflect the new names. A list of affected lease numbers and well names is attached. Also, the bonding should be transferred to Enron Oil and Gas. Enron Oil and Gas Company, A Delaware Corporation, is wholly owned by Enron Corporation.

It is requested that 90 days be granted to have all the wells signs changed.

Also, attached is legal evidence of this ownership. If there are any questions or other information is needed please contact J. C. Ball at 789-0790 in the Vernal Office.

Sincerely yours,

J. C. Ball
District Superintendent

JCB:jl
cc A. C. Morris
D. Weaver
File
J. C. Ball
D. Wright

WHITE RIVER UNIT

WELL #	LEASE #	SECTION	TOWNSHIP	RANGE
"B"	U02510A			
3	UTAH 0629	25	8S	22E
15	UTAH 058	9	8S	22E
16	UTAH 058	9	8S	22E
17X	UTAH 029649	10	8S	22E
19X	UTAH 0971	9	8S	22E
20	UTAH 058	9	8S	22E
24	UTAH 058	10	8S	22E
25	UTAH 0971	9	8S	22E
27	UTAH 029649	10	8S	22E
29X	UTAH 02510A	3	8S	22E
30X	UTAH 02510A	3	8S	22E
31X	UTAH 02510A	4	8S	22E
33X	UTAH 02510A	3	8S	22E
43	ML 22049	16	8S	22E
45	ML 22049	16	8S	22E
46	U 43915	9	8S	22E
47	U 43915	10	8S	22E

STAGECOACH UNIT

1	UTAH ML 3085	32	8S	22E
2	UTAH 0803	28	8S	21E
3	UTAH 0283	8	9S	22E
6	INDIAN 14-20-462-448	20	9S	21E
10-23	UTAH 025963	23	8S	21E
11-22X	UTAH 025960	22	8S	21E
12-23X	UTAH 025963	23	8S	21E
14-34	U 9613	34	8S	21E
15-27	U 0803	27	8S	21E
18-17	PATENTED	17	9S	22E
19-33	U 9613	33	8S	21E
21-8	U 0283	8	9S	22E
23-21 FED	U 025960	21	8S	21E
22-17	INDIAN 14-20-462-448	17	9S	22E

DOGM Form 5
May 5, 1987

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL ☐ GAS WELL ☐ OTHER WIW

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Flying J Exploration and Production, Inc.

8. FARM OR LEASE NAME

3. ADDRESS OF OPERATOR
2906 First Avenue North, Billings, MT 59101

9. WELL NO.
See Below

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT
White River, GRRV

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
T8S, R22E

14. API NUMBER
See Below

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) CHANGE OF OPERATOR			XX
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

OLD OPERATOR
Enron Oil & Gas Co.
P.O. Box 1815
Vernal, UT 84078
(801) 789-0790

NEW OPERATOR
Flying J Exploration and Production, Inc.
2906 First Avenue North
Billings, MT 59101
(406) 252-5136

Flying J Exploration and Production, Inc. will commence all reporting responsibilities on the following wells effective 4-1-89:

WELL NAME	API NUMBER	WELL NAME	API NUMBER
15-9	4304715080	25-9	4304715087
16-9	4304715081	31-4	4304715090
17-10	4304715082	43-16	4304731354
19-9	4304715083	45-16	4304731399
20-9	4304715084	46-9	4304731481
24-10	4304715085	47-10	4304731561
27-10	4305715086		

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Operations Manager DATE 4-26-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: UT-029649

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER: Water INjection

7. UNIT AGREEMENT NAME: White River

2. NAME OF OPERATOR: ENRON OIL & GAS CO.

8. FARM OR LEASE NAME: White River

3. ADDRESS OF OPERATOR: P. O. BOX 1815, VERNAL, UTAH 84078

9. WELL NO.: 17-10

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2,010' FNL & 698' FWL SW/NE

10. FIELD AND POOL, OR WILDCAT:

RECEIVED
MAY 10 1989
DIVISION OF OIL, GAS & MINING

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 10, T8S, R22E

14. PERMIT NO.: 430-47-15082

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 4,937' NGL

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Sell of property			☐
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Enron Oil & Gas Co. sold this well to Flying J Exploration Sept. 1, 1988.

18. I hereby certify that the foregoing is true and correct

SIGNED Linda L Lukas TITLE Sr. Admin. Clerk DATE 5/8/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
JUN 09 1989
DIVISION OF
OIL, GAS & MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Whtie River 17-10

Field or Unit name: White River API no. 430-47-15082

Well location: QQ Sw/NE section 10 township 8S range 22E county Uintah

Effective Date of Transfer: 9/1/88

CURRENT OPERATOR

Transfer approved by:

Name Creg Bowthorpe Company Enron Oil & GAs Co.

Signature Creg Bowthorpe Address P.O. Box 1815

Title Production Foreman Vernal, Utah 84078

Date June 1, 1989 Phone (801) 789-0790

Comments:

NEW OPERATOR

Transfer approved by:

Name James W. Wilson Company Flying J Exploration & Production

Signature James W. Wilson Address 2906 First Avenue North

Title Operations Manager Billings, MT 59101

Date June 8, 1989 Phone (406) 252-5136

Comments:

(State use only)
Transfer approved by R. Hunt Title OGC Manager

Approval Date * 6-13-89

* This approval is conditioned on the new operator meeting the bonding requirements of rule R615-3-1, Oil and Gas Conservation General Rules.

(3/89)

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

INJECTION WELL - PRESSURE TEST
****

TEST DATE: 6/13/89 WELL OWNER/OPERATOR: Flying J.

DISPOSAL WELL: ____ ENHANCED RECOVERY WELL: ✓ OTHER: ____

API NO: 43-047-15082 WELL NAME/NUMBER: 17-10

SECTION: 10 TOWNSHIP: 8.0 S RANGE: 22 E

INITIAL CONDITIONS:

TUBING - rate: SI pressure: —

CASING/TUBING ANNULUS - pressure: 150

CONDITIONS DURING TEST:

TUBING pressure: 600 psi for 10 minutes

CASING/TUBING ANNULUS pressure: 900 psi

annulus pressure drop during test: ____ psi

CONDITIONS AFTER TEST:

TUBING pressure: 0 psi

CASING/TUBING ANNULUS pressure: 480 psi

REMARKS: Pressured up Backside to 900, Bled off to 500 psi/½ min. pressured up to 900 Bled off 500. Put gauge on Backside 480 psi started injecting to 700 psi - Backside did not Pressure up. Possible during leak

OPERATOR REPRESENTATIVE

DOGM WITNESS

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

July 3, 1989

Mr. Jim Wilson
Flying J Exploration and Production Inc.
2906 First Avenue North
Billings, Montana 59101

Dear Mr. Wilson:

Re: Mechanical Integrity Pressure Tests on the White River Unit No. 17 and 19 Wells, Section 9 and 10, Township 8 South, Range 22 East, Uintah County, Utah

On June 13, 1989, pressure testing operations were conducted on the referenced wells to determine mechanical integrity. The testing was witnessed by Mr. Dan Jarvis of the Division and Mr. Cary Smith of Applied Drilling Services, acting as representative for Flying J Exploration and Production Inc.

Results of the pressure tests indicate that the packer and tubing demonstrate mechanical integrity, however, a pressure bleed off occurred on the casing/tubing annulus under shut in conditions which indicates a possible leak in the 5 1/2" production casing above the packer. The casing leak could present a pollution problem should the tubing or packer fail.

The Division requests that Flying J Exploration and Production Incorporated submit a proposal within 15 days of receiving this letter outlining procedures to repair the wells. It is also requested that until the repairs are made, the casing/tubing annulus of each well be monitored monthly and reported on the monthly injection report.

If you have any questions regarding this matter feel free to call me or Dan at (801) 538-5340.

Sincerely,

Gil Hunt
UIC Program Manager

cc: Cary Smith
UI1/118

FLYING J EXPLORATION and PRODUCTION, INC.
2906 FIRST AVE. NORTH - BILLINGS, MONTANA 59101
(406) 252-5136

RECEIVED
JUL 20 1989
DIVISION OF
OIL, GAS & MINING

July 11, 1989

Mr. Gil Hunt
Dept. of Natural Resource
Division of Oil, Gas and Mining, State of Utah
355 West North Temple
Salt Lake City, UT 84180-1203

RE:Mechanical Integrity Pressure Tests on the White River Unit
No. 17-10 and 19-9 Wells, White River Unit, Uintah County, Utah

Dear Mr. Hunt:

Flying J Exploration and Production, Inc. states the underlying facts and proposes the following procedures concerning the casing leaks on the above mentioned wells:

1) On 6-13-89 tests were conducted on each of the above wells which demonstrated the mechanical integrity of the injection packer such that isolation of the tubing and casing/tubing annulus was confirmed.

2) Pressure testing of the casing/tubing annulus indicated slow casing leaks under pressure in each of the wells.

3) Flying J proposes that tubing and casing/tubing annulus pressures be monitored on a daily basis.

4) If pressures on the casing/tubing annulus are monitored relative to pressures on the tubing, such that significant casing leaks and tubing to casing/tubing annulus leaks can be readily identified, then no further action will be taken at this time.

In conclusion, it appears from the test data that any significant casing leaks occur only when higher pressures are exerted on the casing.

We believe that monitoring the wells as outlined above will avoid any unnecessary expenditures but at the same time will indicate any real problems which may require remedial work.

If you wish to discuss this matter further, feel free to call me at (406)252-5136.

Sincerely,

James W. Wilson
Operations Manager

JWW/mbg

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED JAN 12 1990

DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ GAS WELL ☒ OTHER	5. LEASE DESIGNATION AND SERIAL NO. U-09-71
2. NAME OF OPERATOR Flying J. Inc	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR PO Drawer 130 Ballard, Utah 84066	7. UNIT AGREEMENT NAME White River
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Injection pump & tanks for 17-10 & 19-9 in Section Wells	8. FARM OR LEASE NAME Whiteriver Unit
	9. WELL NO. Injection facility for White-river unit
	10. FIELD AND POOL, OR WILDCAT Wansit Valley G.R.
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEc. 9 T8S R22 E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)
	12. COUNTY OR PARISH UIntah / 13. STATE Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Formation Wtr Spill			X
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On 12-4-89 approximately 20 Bbls of wtr and 3 gallons of crude oil overflowed out of an overflow tank on the above location. See attached spill report

UIC
GLH ✓
DJJ ✓
BGH
COMPUTER
MICROFILM
FILE

OIL AND GAS

DRN DJF

JRB GLH

SLS

1-JLT

MICROFILM

FILE

18. I hereby certify that the foregoing is true and correct

SIGNED Charles C. Barlow TITLE District Supervisor DATE 1-4-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

FLYING J INC.

P.O. DRAWER 130 — BALLARD, UTAH 84066
PHONE (801) 722-5169 5166

RECEIVED
JAN 12 1990
DIVISION OF
OIL, GAS & MINING

SPILL REPORT

1. Time & date spill occurred 12-4-89
   Time & date spill discovered 9:00 am 12-4-89
   By whom David Richens

2. Location of spill (Specify the following)
   A. Lease name White River Unit B-Battery Triplex
   B. Field name Wansit Valley
   C. Distance and direction from nearest producing well or injection well 400 Yards
   D. Quarter-quarter section and section number Nw/SW Sec 9
   E. Township and range T8S - R22E
   F. County and state Uintah County, Utah

3. Amount and nature of spilled material Approximately 3 gal crude oil with approximately 20[illegible] bbls water
   Amount recoverable All Crude recovered

4. Distance from closest public water supply reached by spill, and name of the community Vernal. Approximately 28 miles.

5. Distance from any known private water supply, or livestock watering source, in immediate area None

6. Distance from nearest stream or lake Green River - 8 miles

7. Status of containment Fire Burn

   Time required to control N/A

8. Statement as to whether spilled fluid has reached, or can reach, a stream or water supply; and whether livestock, other property, or wildlife are endangered No

9. Cleanup procedures being used (or to be used) and status of cleanup
   Backhoe, shovels - Its cleaned up!

10. Estimate of when cleanup will be completed Done

11. Cause of spill (Specify the following)
   A. Make or manufacturer Charge Pump
   B. Size 5hp
   C. Working pressure 60 lbs
   D. Test pressure
   E. Date of installation 12-6-89
   F. Type of use
   G. Physical Damage
   H. How the spill occured Pump went out & Triplex didn't pump & filled tanks & ran out of overflow

12. Corrective measures to be taken, or recommended, to prevent recurrence
   Emptied overflow tank & rebuilt charge pump

13. Follow up information to be submitted:
   A. Date cleanup completed 12-8-89
   B. Cost of cleanup $300.00

Remarks

Utah Division of Oil, Gas, and Mining
Casing - Bradenhead Test

Operator: FLYING J EXPLORATION
Field/Unit: WHITE RIVER
Well: WHITE RIVER #17-10
Township: 08S Range: 22E Sect:10
API: 43-047-15082
Welltype: INJW Max Pressure: 2000
Lease type: FEDERAL
Surface Owner: FEDERAL
Test Date: 5/16/91

CASING STRING	SIZE	SET AT	PRESSURE	OBSERVATIONS
Surface:	8 5/8	192		
Intermediate:		0		
Production:	5 1/2	5728	260 psi	
Other:		0		
Tubing:	2 7/8		static 60psi	after 10 min injecting pressure went to 360 psi casing remained at 260 psi
Packer:		5491		

Recommendations:

Blow down backside, it appears that the tubing and packer are OK, maybe a small leak in the casing. Continue to monitor and arrange to remediate.

FLYING J OIL & GAS INC.
333 WEST CENTER STREET – P.O. BOX 540180 – NORTH SALT LAKE, UTAH 84054-0180
(801) 298-7733

July 16, 1992

Mr. Gilbert Hunt
Utah Division of Oil, Gas & Mining
Three Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: White River Unit Injection Wells, Uintah County, Utah
White River Unit #17-10
43-047-15082
Sec 10 T8S R22E

Dear Mr. Hunt:

Enclosed please find a memorandum describing the recent problems experienced with the two injection wells , the #17-10 and #19-9, located in the White River Unit. Within the next few days, I will also be sending to your office our procedures for repairing and testing the two wells and requesting your approval of our plans to return the injection wells to service.

Please do not hesitate to contact me if you have any questions or concerns regarding our handling of this matter. I appreciate your assistance and consideration.

Sincerely,

John R. Baza

John R. Baza
Sr. Petroleum Engineer

WHITERIVER 19-9

6-23-92

RU HOT OIL TRUCK TO 5 1/2" CSG PUMP 4 BBLS FORMATION WTR. CAUGHT PRESS CHANGE OVER TO 2 7/8" TBG. PUMP 15 BBLS AT 2 BPM. CAUGHT PRESSURE. BUILT TO 500 PSI W/ 25 BBLS PUMPED. TOTAL OF 50 BW ENDING PRESS. 500 PSI. NO COMMUNICATION BETWEEN 2 7/8" TBG & 5 1/2 CSG. CHANGE OVER TO 5 1/2" CSG CAUGHT PRESS IMMEDIATELY. PRESS TO 500 PSI W/ 5 BBLS PUMPED 2 BPM, 400 PSI W/ 7 BBLS PUMPED, 600 PSI W/ 10 BBLS PUMPED, 400 PSI W/ 11 BBLS PUMPED, GOT CIRC OUT 8 5/8" W/ 11 BBLS PUMPED. SD HOT OILER. INSTALL GAUGE ON 8 5/8" CSG. (NOTE FLOW 2 BBLS BACK TO HOT OILER WHILE INSTALLING GAUGE ON A 8 5/8" CSG, 15 MIN). RESUME PUMPING DOWN 5 1/2" CSG PUMPED 2 BBLS AT 200 PSI CRUDE STARTED SEEPING OUT OF GROUND 3' F/ WH. SD HOT OIL TRUCK. BLEED PRESS TO "O" ON CSG. LEFT WELL SHUT IN W/ "O" ON TBG. AND CSG. (NOTE: APPROX 5 BBLS CRUDE SEEPED OUT ON GROUND).

DAILY & CUM	243.75

6-25-92

RU HOT OIL TRUCK TO 5 1/2" CSG TO CIRC OUT 8 5/8" CSG. STARTED PUMPING FORMATION WTR CAUGHT PRESS IMMEDIATLY GOT RETURNS BACK TO HOT OIL TRUCK IN 4 MIN. PUMPING WITH SMALL GEAR PUMP ON HOT OILER. STARTED SEEPING OIL 3' FROM WH IN 6 MIN FROM START. SD HOT OIL TRUCK CONTINUED TO SEEP AROUND WH. TOTAL OF 5 BBLS WTR PUMPED DOWN 5 1/2" CSG APPROX 1 BBL OIL BACK TO HOT OIL TRUCK. APPROX 3 BBLS SEEPED AROUND WH. RD & RELEASE HOT OIL TRUCK. BACK FILLED HOLE AROUND WH. SHUT WELL IN.

DAILY	292.00
CUM	535.75

W.F.U wtr analysis 17-10 surface pipe (8⅝") and long string (5½")

sample #1 Injection water from unit injection tank (1000 Bbl)

sample #2 water flowing out 8⅝" surface pipe before testing csgs.

sample #3 wtr flowing out 8⅝" surface 48 hrs after csgs. tested

press tested csg's, 5½ — 8⅝ 6-24-92 see report in well file dated 6-25-92

Catch sample of wtr flowing out 8⅝" surface csg. sample #2
before injecting
inject into 5½" or 8⅝" csgs. shut csgs in for 24 hrs.
at the end of 24 hrs.
open csgs. bleed off press leave 8⅝" csg flowing 24 hrs
catch sample #3 from 8⅝" csg.

JUL 6 1992

Jetco Chemicals, Inc.
A Procter & Gamble Co.

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY FLYING J. EXPLORATION ADDRESS _____ DATE: _____

SOURCE WRU 17-10 injection water DATE SAMPLED 6-24 ANALYSIS NO. _____

		Analysis	Mg/l (ppm)	*Meq/l	
1.	PH	8.0			
2.	H_2S (Qualitative)	.5			
3.	Specific Gravity	1.029			
4.	Dissolved Solids		37,394		
5.	Suspended Solids				
6.	Anaerobic Bacterial Count	CI	C/Ml		
7.	Methyl Orange Alkalinity ($CaCO_3$)				
8.	Bicarbonate (HCO_3)	HCO_3 360		÷61 6	HCO_3
9.	Chlorides (Cl)	Cl 22,500		÷35.5 634	Cl
10.	Sulfates (SO_4)	SO_4 0		÷48 0	SO_4
11.	Calcium (Ca)	Ca 520		÷20 26	Ca
12.	Magnesium (Mg)	Mg 122		÷12.2 10	Mg
13.	Total Hardness ($CaCO_3$)		1,800		
14.	Total Iron (Fe)				
15.	Barium (Qualitative)		40		
16.	Phosphate Residuals				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

26	Ca	←	HCO_3	6	Compound	Equiv. Wt.	X Meq/l	= Mg/l
		↘			$Ca(HCO_3)_2$	81.04	6	486
10	Mg	→	SO_4	0	$CaSO_4$	68.07		
		↙			$CaCl_2$	55.50	20	1110
604	Na	→	Cl	634	$Mg(HCO_3)_2$	73.17		
					$MgSO_4$	60.19		
					$MgCl_2$	47.62	10	476
					$NaHCO_3$	84.00		
					Na_2SO_4	71.03		
					NaCl	58.46	604	35,310

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS _____

F.12

(2)

Jetco Chemicals, Inc.
A Procter & Gamble Co.

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY FLYING J. EXPLORATION ADDRESS _____ DATE: _____

SOURCE WRW 17-10 DATE SAMPLED 6-24-92 ANALYSIS NO. _____

water flowing from 8 5/8" surface pipe

	Analysis	Mg/l (ppm)	*Meq/l		
1. PH	8.5				
2. H_2S (Qualitative)	1.5				
3. Specific Gravity	1.001				
4. Dissolved Solids		2673			
5. Suspended Solids					
6. Anaerobic Bacterial Count	CI	C/Ml	360		
7. Methyl Orange Alkalinity ($CaCO_3$)					
8. Bicarbonate (HCO_3)		HCO_3 360	÷61	6	HCO_3
9. Chlorides (Cl)		Cl 250	÷35.5	7	Cl
10. Sulfates (SO_4)		SO_4 1200	÷48	25	SO_4
11. Calcium (Ca)		Ca 28	÷20	1	Ca
12. Magnesium (Mg)		Mg 7	÷12.2	1	Mg
13. Total Hardness ($CaCO_3$)		100			
14. Total Iron (Fe)		4.5			
15. Barium (Qualitative)					
16. Phosphate Residuals					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

1	Ca	HCO_3
1	Mg	SO_4
36	Na	Cl
		6
		25
		7

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	1	81
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	4	336
Na_2SO_4	71.03	25	1775
NaCl	58.46	7	409

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS _____

Jetco Chemicals, Inc.
A Procter & Gamble Co.

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

File

3

WATER ANALYSIS REPORT

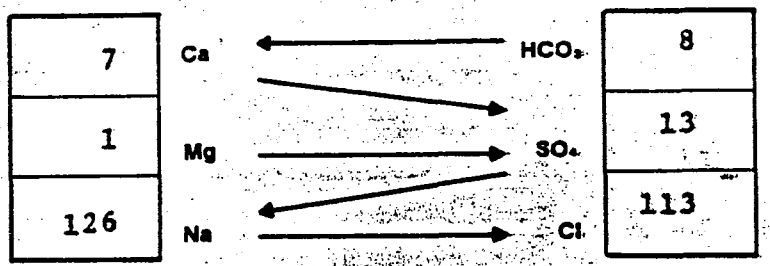
COMPANY FLYING J. EXPLORATION ADDRESS _____ DATE: _____

SOURCE WRU 17-10 DATE SAMPLED 6-26-92 ANALYSIS NO. _____

	Analysis	Mg/l (ppm)	*Meq/l	
1. PH	7.6			
2. H_2S (Qualitative)	1.5			
3. Specific Gravity	1.001			
4. Dissolved Solids		8115		
5. Suspended Solids				
6. Anaerobic Bacterial Count	CI C/MI			
7. Methyl Orange Alkalinity ($CaCO_3$)				
8. Bicarbonate (HCO_3)		460	÷61	8 HCO_3
9. Chlorides (Cl)		4000	÷35.5	113 Cl
10. Sulfates (SO_4)		600	÷48	13 SO_4
11. Calcium (Ca)		140	÷20	7 Ca
12. Magnesium (Mg)		17	÷12.2	1 Mg
13. Total Hardness ($CaCO_3$)		420		
14. Total Iron (Fe)		1.0		
15. Barium (Qualitative)				
16. Phosphate Residuals				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04	7	567
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	1	73
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00		
Na_2SO_4	71.03	13	923
NaCl	58.46	113	6606

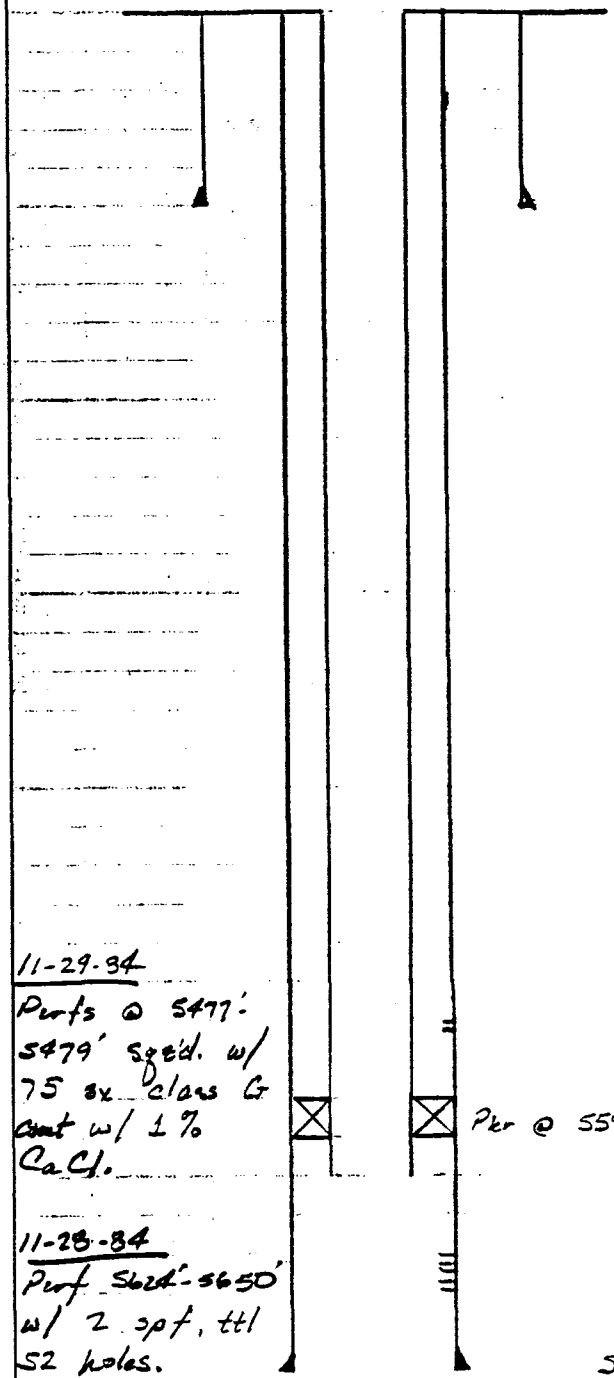
Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS _____

6-26-92
JRB

White River Unit # 19-9

2019' FNL, 1869' FEL
SW NE Sec. 9, T. 8S, R. 22E
Uintah Co., Utah



8 5/8", 24#, J-55 csg. set @ 192'
cmt w/ 165 sx regular cmt w/
2% CaCl & 3% salt.

TOC @ 3940' from CBL dated 10-29-64

Tbg detail:

182 jts 2 7/8" tbg	5534.32
Baker Model "G"	2.80
1 jt 2 7/8" tbg	31.46
Notched Collar	
KB	12.00
	5630.58

11-29-84
Perfs @ 5477':
5479' sqz'd. w/
75 sx class G
cmt w/ 1%
CaCl.

Pkr @ 5596'

11-28-84
Perf 5624'-5650'
w/ 2 spf, ttl
52 holes.

10-29-64
Perf 5678'-5683'
w/ 4 spf.

5 1/2", 15.50#, J-55 csg set @ 5728'
cmt w/ 225 sx Posmix w/ 2%
gel & 10% salt (by water) around
shoe & 100 sx through stage
collar @ 4489'

July 16, 1992

MEMORANDUM TO FILE

From: John Baza, Sr. Petroleum Engineer

Re: White River Unit Injection Wells

On the morning of June 19, 1992, at the White River Unit in Uintah County, Utah, the contract pumper responsible for monitoring daily operations observed fluid permeating the ground near the wellhead of the #17-10 injection well. The pumper shut down injection to the well thinking that injected fluid was circulating outside the wellbore. Later that same morning, Kreg Hill, Production Superintendent for Flying J notified John Baza that the #17-10 injection well was shut-in because of the leakage. It was decided that in order to continue unit production, field operations staff would attempt to inject all produced water from the White River Unit into the #19-9 injection well as long as the injection pressure remained below the 1000 psi maximum allowable injection pressure specified in the permit for the well.

During the afternoon of June 19, 1992, Chuck Gardner, Production Foreman for Flying J also contacted John Baza and provided additional information concerning the #17-10 injection well. Mr. Gardner stated that the pumper had been monitoring on a daily basis the annulus pressure between the injection tubing and the 5-1/2" casing and that the pressure did not change prior to or after observing the surfacing fluid. The annulus pressure remained at approximately 200 to 250 psi where it had been holding for several months. Mr. Gardner also stated that they had switched all water injection to the #19-9 injection well and that current injection pressure was reading about 800 psi.

On the morning of June 23, 1992, Mr. Baza spoke with Kreg Hill again concerning the White River injection wells. Mr. Hill stated that White River Unit production and injection had been shut-in on June 21, 1992, because state approvals to inject allowed only 500 BWIPD per injection well in the unit and the field was producing over 600 BWPD which needed to be injected. Mr. Baza then consulted with James Wilson, Vice President of Operations for Flying J, and it was decided that the field operations staff would perform some short term, low volume pump testing of the #17-10 injection well to determine the nature of the fluid surfacing near the wellhead. Field staff would also collect samples of the injected water and the water surfacing near the wellhead and have them analyzed in order to characterize the source

of the surfacing fluid. Later that same morning, Mr. Wilson contacted Mr. Hill and communicated this course of action to him.

In the afternoon of June 23, 1992, Charles Gardner arranged for a pump truck to travel to White River Unit to test the injection wells. In previous discussions between Mr. Gardner and Kreg Hill, they had decided to test both injection wells as long as the equipment was in the area and available. The results of the pump testing on the individual wells are shown on the attached reports. In both injection wells, no communication was observed between the injection tubing and the tubing-casing annulus above the injection packer. However, as shown by the reports, when pressure was applied to the 5-1/2" casing, both wells exhibited communication to the 8-5/8" casing and fluid surfaced outside the 8-5/8" casing near the wellhead. Mr. Gardner repeated the pump test of the #19-9 injection well on June 25, 1992, in order to confirm the existence of communication between the casing strings.

Water samples were obtained from the #17-10 injection well on June 23, 1992, prior to pump testing in order to discern the possible source of the surfacing fluid. The first sample was obtained from the White River Unit main water injection tank, and the second sample was obtained from water flowing out of the 8-5/8" casing valve on the #17-10 injection well. A third water sample was obtained from the casing valve flow on June 25, 1992, approximately 48 hours after performing the pump testing of the two injection wells. The resulting analyses are shown on the attached reports from Jetco Chemicals Inc.

The available information suggests that both injection wells require some remedial work to repair leaks within the 5-1/2" casing strings. In both wells, pump testing indicated that there is communication between the 5-1/2" and 8-5/8" casings when adequate pressure is applied. Also in both wells, there are previously perforated zones which have been cement squeezed and the injection packers have been set below the squeezed perfs. Schematic diagrams of the wellbore configurations for both injection wells are included as attachments.

It is likely that the squeezed perfs in the #17-10 injection well which are in the Parachute Creek gas zone of the Green River formation have leaked gas and caused the annular space between the tubing and casing to pressure up. It is also very possible that a recent leak developed in the 5-1/2" casing, and with the constant

pressure applied to the 5-1/2" casing, fluid was forced around the outside of the 8-5/8" casing to surface near the wellhead.

The three water analyses performed on the samples obtained from the #17-10 well indicate that the injected fluid is significantly different from the fluid surfacing near the wellhead. By comparing the chemical characteristics of specific gravity, dissolved solids, and chlorides in water samples 1 and 2, the fluid surfacing near the wellhead appears to be from a fresh water source rather than the injected water. Water sample 3 indicates an increase in the aforementioned characteristics which is likely due to dilution of the near wellhead fluid by the water used during the pump tests 48 hours prior to the final sampling. The water used for the pump tests was the same injected water whose chemical composition is indicated by water sample 1.

The #19-9 injection well also has squeezed perforations in one of the oil producing sands of the Green River formation approximately 200' shallower than the waterflooded sand. These squeezed perfs may also be leaking and because of the communication between the 5-1/2" and 8-5/8" casings, pump testing of the 5-1/2" casing probably caused oil to surface around the 8-5/8" casing near the wellhead.

Procedures are being prepared to workover both White River injection wells in order to repair the 5-1/2" casing leaks and ensure mechanical integrity of the wells. As previously stated, both injection wells and the three of the producing wells in the field have been shut-in since June 21, 1992. After repairing and testing the wells, Flying J could then apply for permission to recommence injection for enhanced recovery purposes.

WHITE RIVER 17-10

6-23-92

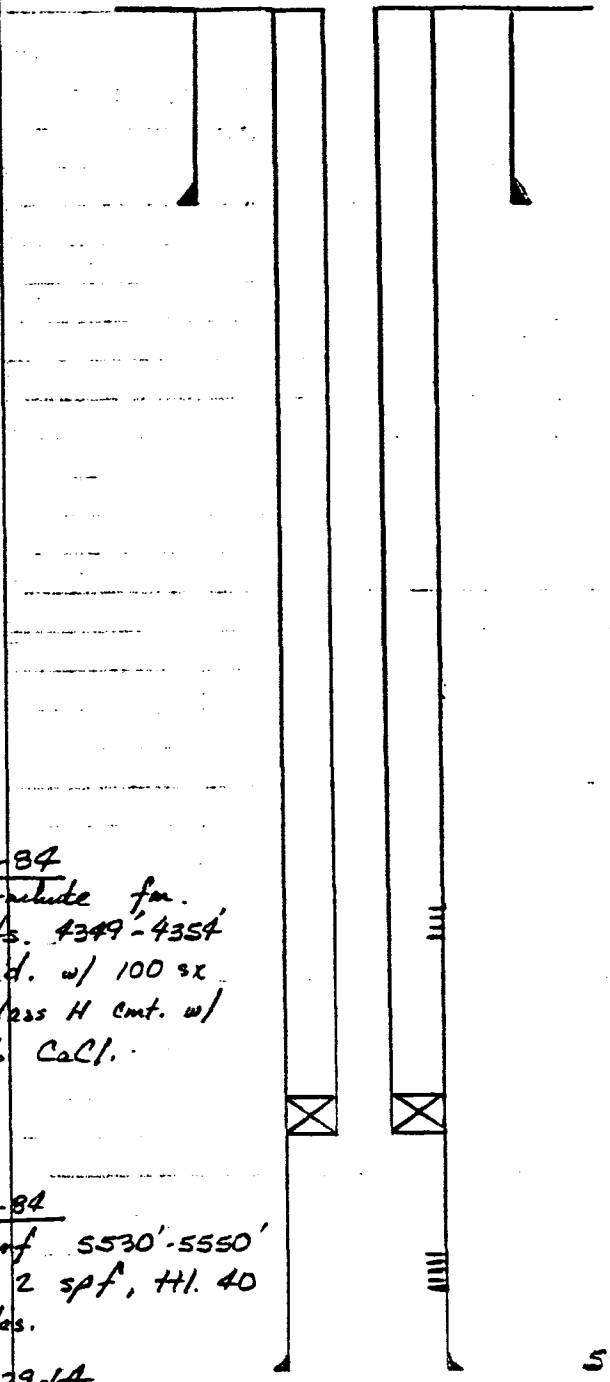
RU HOT OIL TRUCK PUMP DOWN 5 1/2" CSG W/ FORMATION WTR. PRESS TO 500 PSI IMMEDIATELY BLED TO 300 PSI IN 1 MIN. PRESS AGAIN TO 500 PSI. BLED TO 300 PSI IN 1 MIN. PRESS TO 500 PSI & INJECTED 7 BBLS AT 1/2 BPM. 8 5/8" CSG SLOWLY BUILT TO 400 PSI AFTER 7 BBLS PUMPED. SD HOT OILER W/440 ON 5 1/2" CSG HOT OILER GAUGE 400 PSI ON 8 5/8" CSG. WH GAUGE BLED TO 242 PSI ON 5 1/2" CSG HOT OILER GAUGE & 222 PSI ON 8 5/8" CSG IN 30 MIN. BLED PRESS OFF 5 1/2 CSG W/ 222 PSI LEFT ON 8 5/8". PRESS BLED F/ 222 TO 206 ON 8 5/8" CSG IN 15 MIN. CHANGE HOT OILER F/ 5 1/2" CSG TO 8 5/8" CSG. PRESS 8 5/8" CSG TO 300 PSI. BLED TO 200 PSI IMMEDIATELY. PRESS AGAIN TO 300 PSI BLED TO 200 PSI IMMEDIATELY. PRESS TO 300 PSI HELD W/ SLIGHT BLEED OFF IN 10 MIN. BLEED PRESSURE OFF 5 1/2" & 8 5/8" CSG BOTH STANDING FULL CHANGE HOT OILER F/ 8 5/8" CSG TO 2 7/8" TBG. PUMP 5 BBLS @ 2 BPM. CAUGHT PRESSURE BUILT TO 1100 PSI W/ 10 BBLS PUMPED. PUMP ADDITIONAL 50 BBLS AT 1100 PSI NO COMMUNICATION BETWEEN 2 7/8" TBG & CSG. CHANGE HOT OIL TRUCK F/ 2 7/8" TBG TO 5 1/2" CSG. PRESS 5 1/2" & 8 5/8" CSG TO 300 PSI W/ GAUGES. LEFT WELL SHUT IN W/ "O" TBG, 300 5 1/2" CSG & 300 8 5/8" CSG. RD HOT OIL TRUCK & MOVE TO 19-9.

DAILY & CUM. 243.75

6-25-92
JRB

White River Unit # 17-10

2010' FNL, 698' FWL
SW NW Sec. 10, T. 8S, R. 22E
Uintah Co., Utah



8 5/8", 24 #, J-55 Csg. set @ 201'
Cmt. w/ 175 sx regular cmt.
w/ 2% CaCl and 3% salt.
Good cmt. returns

11-2-84
Perforate fm.
perfs. 4349'-4354'
sqzd. w/ 100 sx
Class H cmt. w/
1% CaCl.

11-1-84
Perf 5530'-5550'
w/ 2 spf, Hl. 40
holes.

9-29-84
Perf 5544' w/
8 shots.

TOC calculated @ 4003'. (Cmt. rd. above stage collar.)

Tbg. detail:

171 jts. 2 7/8" tbg.	5414.59
SN	1.10
1 jt. 2 7/8" tbg.	31.65
5 1/2" Baker pkr.	2.35
1 jt 2 7/8" tbg.	31.63
Notched collar	—
KB	12.00
	5493.82

5 1/2", 15.50 #, J-55 Csg. set @ 5660'
cmt. w/ 225 sx Pozmix A w/ 6 #/sk salt
around shoe & 125 sx through stage collar
@ 4419'.

FLYING J OIL & GAS INC.
333 WEST CENTER STREET – P.O. BOX 540180 – NORTH SALT LAKE, UTAH 84054-0180
(801) 298-7733

July 30, 1992

Mr. Gilbert Hunt
Utah Division of Oil, Gas & Mining
Three Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: White River Unit Injection Wells, Uintah County, Utah

Dear Mr. Hunt:

In reference to a recent letter sent to your office concerning two injection wells located in the White River Unit, I have enclosed our procedures for repairing and testing the two wells. I request your approval of these plans, and subject to obtaining successful mechanical integrity tests (MIT) of the wells, I request your approval to return the injection wells to service. You will note that the procedures include provisions for notification to your office when adequate repairs have been accomplished and MIT can be performed.

If you have any questions or concerns regarding this matter, please contact myself or Mr. James Wilson, Vice President of Production at the letterhead address and telephone number. I appreciate your assistance and consideration.

Sincerely,

John R. Baza
Sr. Petroleum Engineer

Form 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number: U-029649

7. Indian Allottee or Tribe Name: NA

8. Unit or Communitization Agreement: White River Unit

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other (specify) Enhanced recover injection well

9. Well Name and Number: #17-10

2. Name of Operator: Flying J Oil & Gas Inc.

10. API Well Number: 43-047-15082

3. Address of Operator: P.O. Box 540180 North Salt Lake, UT 84054-0180

4. Telephone Number: (801)298-7733

11. Field and Pool, or Wildcat: White River

5. Location of Well
Footage : 2010' FNL, 698' FWL
QQ, Sec, T., R., M. : SW NW Sec. 10, T.8S, R.22E
County : Uintah
State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandonment	☐ New Construction	☐ Abandonment *	☐ New Construction
☒ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other			

Approximate Date Work Will Start: ASAP

Date of Work Completion:

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See attached procedure for repairing leaks in the referenced injection well.

Accepted by the State of Utah Division of Oil, Gas and Mining
Date: 8-4-92
By: A.B.L.

RECEIVED
JUL 31 1992
DIVISION OF
OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name & Signature: John R. Baza Title: Sr. Petroleum Engineer Date: 7-30-92

(State Use Only)

(8/90)

See Instructions on Reverse Side

WORKOVER PROCEDURE
WHITE RIVER UNIT WELL NO. 17-10
July 29, 1992

Purpose: Isolate and repair leak in 5-1/2" casing. Perform mechanical integrity test of injection well as required by the U.S. Environmental Protection Agency and the Utah Division of Oil, Gas and Mining.

PERTINENT INFORMATION

Well Location: 2010' FNL, 698' FWL (SW NW)
Sec. 10, T. 8S, R. 22E
Uintah Co., Utah

Spud Date: 9-2-64

Elevations: 4937'GL, 4949'KB

TD: 5671'

PBTD: 5618'

Formation: Green River

Completion Date: 9-30-64

Casing: 8-5/8", 24# @ 201' w/ 175 sx cement
5-1/2", 15.5# @ 5677' w/ 500 sx cement
(Calculated cmt top @ 4003')

Perforations: 5530'-5550'

PROCEDURE

1. MIRUSU. ND wellhead. Release Bkr model G pkr @ 5494'. SOOH. LD BHA.

2. TIH w/ 4-3/4" mill and 5-1/2" M&M csg scr, 4' 2-7/8" pup jt & SN. CO to PBTD @ approx 5618'. Test 2-7/8" tbg to 2000#.

3. POOH. LD BHA.

4. PU 5-1/2" RBP & FBRC. TIH. Isolate leaks & cmt as necessary. (If leak should be close to surface, attempt to cut or back off 5-1/2" csg and replace as necessary.)

5. Drill out cmt. Test repaired csg to 1000#. If csg does not test, isolate leaks and repeat repairs as necessary. If csg tests OK, CO to RBP and recover same.

6. Run CBL to verify cement placement.

7. TIH w/ Bkr model G pkr. Circ well w/ 100 bbls inhibited water. Set pkr @ approx 5494'.

8. Test the 5-1/2" csg & pkr to 1000#. Install wellhead.

9. RDMOSU.

10. Inform the U.S. Environmental Protection Agency and the Utah Division of Oil, Gas and Mining that the well is ready for a mechanical integrity test in order to recommence injection. Fill the 2-7/8" tbg - 5-1/2" csg annulus with noncorrosive fluid. Perform mechanical integrity test of 5-1/2" csg & pkr to a surface pressure of at least 300#. Hold pressure for at least 45 minutes, recording pressures at five minute intervals. The mechanical integrity test should not show greater than ten percent change in pressure over 45 minutes in order for the test to be successful.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

SEP 23 1993

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. John R. Baza
Flying J Oil & Gas Inc.
333 West Center Street
P.O. Box 540180
North Salt Lake, UT 84054-0180

RE: UNDERGROUND INJECTION CONTROL (UIC)
NOTICE OF NONCOMPLIANCE
White River Unit Injection Wells
#17-10 (EPA #UT02548)
#19-9 (EPA #UT02549)
Uintah County, Utah

Dear Mr. Baza:

Recent routine field inspections conducted the morning of August 19, 1993, by Mr. Gustav Stolz and Mr. Chuck Williams, of my staff, found the above two referenced rule-authorized injection facilities to be possibility in noncompliance with the underground injection control (UIC) regulations.

Each of the two wells were found to have an unreported positive casing/tubing annulus pressure ranging from 170 psig (#19-9) to 175 psig (#17-10). If the annular gauge is correct, the annulus pressure could be considered an indication of a lack of mechanical integrity for each of these wells.

Upon your receipt of this letter, Flying J must immediately shut-in the two wells and not resume injection until so advised by the EPA. Flying J must comply with the following requirements within **thirty (30) days** of receipt of this letter:

(1) shut-in the two wells immediately, conduct the necessary remedial action, or plug and abandon if warranted, to bring the #19-9 and #17-10 wells into compliance, and

(2) prior to resuming injection, Flying J must conduct and pass an authorized witnessed mechanical integrity test (MIT), and

(3) submit a completed Well Rework Record, EPA Form 7520-12, or

(4) provide a written explanation why the allegation is invalid.

Any person who violates any requirement of the Underground Injection Control (UIC) program is subject to enforcement action under Section 1423 of the Safe Drinking Water Act, [42 U.S.C. Section 300h-2], et seq.. Enforcement may include civil penalties of up to $25,000 for each day for each violation and mandate compliance with all provisions of the SDWA. If the violation is willful, criminal penalties may be prosecuted in accordance with Title 18 of the United States Code. Any noncompliance is a violation

Please direct all correspondence concerning these wells to **ATTENTION: CHUCK WILLIAMS** citing **MAIL CODE: 8wm-DW**, or you may telephone Mr. Williams at (303) 293-1550 concerning this action.

Sincerely,

Thomas J. Pike, Chief
UIC Implementation Section

cc: Mr. Ferron Secakuku
Energy and Minerals Resource Dept.
Ute Indian Tribe

Mr. Norman Cambridge
Uintah & Ouray Agency - BIA

Mr. Luke Duncan
Uintah & Ouray Business Committee
Northern Ute Tribe

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas & Mining

Mr. Jerry Kenszka
BLM - Vernal District Office

43047-15082
43-047-15083

FLYING J OIL & GAS INC.

333 WEST CENTER STREET • P.O. BOX 540180
NO. SALT LAKE CITY, UTAH 84054-0180
PHONE (801) 298-7733

October 1, 1993

Mr. Chuck Williams
Drinking Water Branch (8WM-DW)
U.S. Environmental Protection Agency
999 18th Street, Suite 500
Denver, Colorado 80202-2466

RE: White River Unit Injection Wells #17-10 (EPA #UT02548) and #19-9 (EPA #UT02549), Uintah County, Utah

Dear Mr. Williams:

On September 30, 1993, Flying J Oil & Gas Inc. received your Notice of Noncompliance dated September 23, 1993, concerning the referenced wells which are rule authorized Class II water injection wells used for secondary recovery of oil and gas. This letter shall notify you that both wells were shut-in on September 30th and this letter shall also provide additional information regarding each of the referenced wells.

No fluid has been injected into the WRU #17-10 well since June 1992, when both injection wells in the White River Unit were shut-in for repairs. Repair operations were performed on the other injection well, the WRU #19-9, from September through November 1992. Although a similar repair operation was planned for the #17-10 injection well shortly thereafter, the work was not performed and the well continued in the shut-in status in which it currently remains. It is now the intent of Flying J to permanently plug and abandon the #17-10 well, as it is no longer needed as a waterflood injection well.

Enclosed is a copy of the sundry notice form which has been submitted to the U.S. Bureau of Land Management (BLM), requesting approval of the proposed plugging procedure for the #17-10 well from that federal agency. Also enclosed is additional pertinent information regarding the proposed plugging program for your consideration. Assuming that both your office and the BLM approve the plugging and abandonment of the well, Flying J would commence plugging operations within thirty days of approval.

As already mentioned, the WRU #19-9 well underwent repair operations during 1992 and an MIT was performed and witnessed by Mr. John Berrier, inspector for the State of Utah Division of Oil, Gas and Mining (DOGM). Documentation of the workover and MIT results were submitted to the EPA in November 1992 by Mr. J. Kreg Hill, Production Superintendent for Flying J in Roosevelt, Utah. In accordance with requirements of the DOGM, the well was returned to injection on November 3, 1992, with a pressure recorder installed in order to monitor the pressure between the tubing and casing.

The following paragraphs address individually each of the requirements of your September 23rd letter:

(1) Both injection wells are currently shut-in. The #17-10 well has been shut-in since June 1992 and the #19-9 well was shut-in upon receipt of your letter on September 30, 1993. It is important to note that ceasing injection into the #19-9 well necessitated the shut-in of White River Unit production because without an operating injection well, water production from the unit could not be recycled back into the producing formation.

(2) For the #19-9 well, Flying J has conducted and passed an MIT witnessed by a State of Utah representative in October 1992 after performing casing repair operations and prior to returning the #19-9 well to injection. Documentation for the MIT was submitted to the EPA in November 1992 as confirmed by telephone communication between Mr. Gustav Stolz and myself on September 30, 1993. No MIT has been conducted on the #17-10 well because no injection has occurred since damaged casing was discovered in June 1992 and no workover operations have taken place to repair the damaged casing.

(3) For the #19-9 well, Flying J submitted a completed Well Rework Record in November 1992 as confirmed by telephone communication between Mr. Gustav Stolz and myself on September 30, 1993. No Well Rework Record has been submitted for the #17-10 well because no workover operations have taken place to repair the damaged casing in the well.

(4) Your inspection on August 19, 1993 found positive pressures on the casing/tubing annuli of both injection wells. These pressures were known to exist at the time of the proposed repair operations and they likely represent pressure from uphole gas zones which were previously squeezed off but are in partial communication with the wellbore. From the MIT test performed on the #19-9 well in October 1992, it was established that fluid movement out of the casing was minor and complied with EPA requirements for demonstration of mechanical integrity. Because the #17-10 well has been shut-in since June 1992, there is no potential

for injected water to be pressurizing the casing/tubing annulus or invading shallow formations. Flying J has reported the positive casing pressure for the #19-9 well both to the EPA on the Annual Disposal/Injection Well Monitoring Report (EPA form 7520-11) submitted in February 1993 and to the DOGM on their Monthly Report of Enhanced Recovery Project (UIC form 2).

Flying J has attempted to perform the necessary actions and submit the appropriate reports to ensure compliance with applicable federal and state requirements for operating Class II secondary recovery injection wells. As directed by your September 23rd letter, both injection wells have been shut-in; however, I feel it is appropriate in light of the information presented with this letter that Flying J be allowed to continue injection into #19-9 well again and resume operations of the White River Unit. If necessary, Flying J can conduct an additional MIT at which an EPA representative could be present. If this is required, I request that we establish an acceptable date and time as quickly as possible to perform the test.

I appreciate your consideration of this response and I look forward to discussing this matter with you further.

Sincerely,

John R. Baza
Senior Petroleum Engineer

Enclosures
cc: Ferron Secakuku
Norman Cambridge
Luke Duncan
Gil Hunt
Jerry Kenczka
Kreg Hill

wruinj.jrb

43-047-15052

FLYING J OIL & GAS INC.

333 WEST CENTER STREET • P.O. BOX 540180
NO. SALT LAKE CITY, UTAH 84054-0180
PHONE (801) 298-7733

September 29, 1993

Oil and Gas Conservation Program
Utah Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Request for Approval to Plug and Abandon the White River Unit #17-10 Injection Well

Dear Sir or Madam:

For your consideration, I have enclosed duplicate copies of a Sundry Notice Form #9 requesting approval to plug and abandon the referenced well. This information has also been sent to the U.S. Environmental Protection Agency and the U.S. Bureau of Land Management for their review.

If you have any questions concerning the request, or if you require additional information, please contact me at the letterhead address and telephone number.

Sincerely,

John R. Baza
Sr. Petroleum Engineer

Enclosures

CC: Kreg Hill

whrv1710.jrb

Form 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

RECEIVED
OCT 04 1993
DIVISION OF OIL, GAS & MINING

6. Lease Designation and Serial Number: U-43918

7. Indian Allottee or Tribe Name:

8. Unit or Communitization Agreement: WHITE RIVER UNIT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT— for such proposals

1. Type of Well: ☐ Oil Well ☐ Gas Well ☒ Other (specify) (CLASS II INJECTION WELL)

9. Well Name and Number: 17-10

2. Name of Operator: FLYING J OIL & GAS INC.

10. API Well Number: 43-047-15082

3. Address of Operator: 333 West Center Street, North Salt Lake, UT 84054

4. Telephone Number: (801) 298-7733

11. Field and Pool, or Wildcat: WHITE RIVER

5. Location of Well
Footage : 2,010' FNL, 698' FWL
QQ, Sec, T., R., M. : 8S-22E-10: SWNW
County : UINTAH
State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☒ Abandonment	☐ New Construction	☐ Abandonment *	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other			

Approximate Date Work Will Start: _____

Date of Work Completion: _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Flying J intends to plug and abandon the referenced well, according to the following procedure:

1. MIRUSU. Co to PBTD.
2. Set CIBP @ 5,490'.
3. Spot 30 SX cement on CIBP - cement top @ 5,290'
4. Set balanced plug of 30 SX - cement @ 4,250' - 4,450'.
5. Set plugs as necessary to seal off suspected casing leaks.
6. Set surface plug of 15 SX - cement @ 0' - 100'.
7. Cut off casing, set dry hole marker, remove surface equipment, and restore location.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-12-93
BY: [signature]

14. I hereby certify that the foregoing is true and correct

Name & Signature: John R. Baza JOHN R. BAZA Title SR. PETROLEUM ENGINEER Date 9/29/93

(State Use Only)

Federal Approval of this Action is Necessary

September 24, 1993
J. Baza

P&A PROCEDURE
WHITE RIVER UNIT WELL NO. 17-10

Purpose: Plug and abandon well.

PERTINENT INFORMATION

Well Location: 2010' FNL, 698' FWL (SW NW)
Sec. 10, T. 8S, R. 22E
Uintah Co., Utah

Spud Date: 9-2-64

Elevations: 4937'GL, 4949'KB

TD: 5671'

PBTD: 5618'

Formation: Green River

Completion Date: 9-30-64

Casing: 8-5/8", 24# @ 201' w/ 175 sx cement
5-1/2", 15.5# @ 5677', stage collar @ 4418', cemented w/ 225 sx around shoe and 125 sx through stage collar. (Calculated cmt top @ 4003'.)

Perforations: 5530'-5550'
Squeezed perforations @ 4349'-4354' w/ 100 sx cement

Top of Cement: 4003' (estimated from cement volume above 5-1/2" stage collar using yield=1.15 cu.ft./sk and 100% excess volume)

PROCEDURE

1. Drop std valve and test 2-7/8" tbg to 2000#.

2. MIRUSU. ND wellhead. Release Bkr model G pkr @ 5494'. SOOH. Attempt to isolate leaks if tbg did not test in step 1. LD BHA.

3. TIH w/ 4-3/4" mill and 5-1/2" M&M csg scr, 4' 2-7/8" pup jt & SN. CO to PBTD @ approx 5618' using hot H_2O and diesel as necessary to clean out paraffin. POOH. LD BHA.

4. PU 5-1/2", 15.5# CIBP. Set CIBP @ approx 5490'.

5. Spot 200' cement plug (approx 30 sx) on top of CIBP @ 5490'.

6. Displace wellbore w/ corrosion and bacterial inhibited H_2O. Pull up to $\pm$4450'.

7. Set balanced plug of approx 30 sx to cover interval 4450'-4250' (previously squeezed perforations @ 4349'-4354'). Pull up hole and circulate tbg to ensure tbg is clear.

8. WOC overnight. TIH and tag top of balanced plug at approx 4250'.

9. Pressure test csg to 500 psi and isolate csg leaks as indicated by well report dated 6-23-93. Perform cementing as necessary to seal off csg leaks. If no leaks are determined, proceed with next step.

10. Set surface plug of approx 15 sx to cover interval 0'-100'. TOOH. RDMOSU.

11. Cut off csg 4' below ground level. Cap casing, set dry hole marker, remove surface equipment, and restore location.

FLYING J OIL & GAS INC.
333 WEST CENTER STREET • P.O. BOX 540180 • NORTH SALT LAKE, UTAH 84054-0180
PHONE (801) 298-7733

October 26, 1993

Mr. Chuck Williams
Drinking Water Branch (8WM-DW)
U. S. Environmental Protection Agency
999 18th Street
Suite 500
Denver, Colorado 80202-2466

RE: White River Unit Injection Wells
43-047-15082 #17-10 (EPA #UT02548) and
Sec 10 T8S R22E #19-9 (EPA #UT02549)
Uintah County, Utah

Dear Mr. Williams:

As a follow up to our telephone conversation of October 5, 1993, I am sending you additional information regarding the referenced wells. The status of the WRU #17-10 well has not changed and it remains shut-in, pending plugging and abandonment. The WRU #19-9 well is back on injection and the White River Unit is again producing as agreed upon during our telephone conversation. Additional information regarding each well is provided in the following paragraphs.

White River Unit #17-10 Well

To address the issues which you raised during our telephone conversation, an engineering and geologic review of the well was conducted. New well bore diagrams have been prepared which illustrate the current mechanical condition of the well and the proposed plugging program for the well. Copies of these diagrams are enclosed, along with a revised plugging program for the well. One additional cement plug has been included to meet your concern of sealing of the top of the Green River formation. Also the surface plug includes cement both inside the 5-1/2" casing and in the 8-5/8" and 5-1/2" casing annulus. In addition, I have included the appropriate log sections for the well illustrating the geologist's picks for the top of the Green River formation.

Also enclosed is a copy of the sundry notice form which was filed with the Utah Division of Oil, Gas and Mining (DOGM) indicating that they accepted the proposed plugging procedure. The DOGM has specific requirements for sealing off the oil shale zones in certain designated areas of the state, and they have indicated their concurrence that the proposed plugging procedure should adequately protect the oil shale intervals within this well. Although the U.S. Bureau of Land Management has not yet responded to our original application to plug the well, I have discussed this matter with Mr. Jerry Kenczka, of their Vernal District office, who indicated that any requirements which they have for cementing of the oil shale zones will be conditions of approval from their office, if such stipulations are necessary. Flying J will certainly comply with such conditions of approval if the concerns of all the regulatory agencies can be met.

White River Unit #19-9 Well

The WRU #19-9 well was shut-in on September 30, 1993, after receiving your letter requiring such action. As previously mentioned, the well was returned to injection on October 8th, shortly after our telephone conversation. For your records, I have enclosed copies of the surface pressure recorder charts which have been obtained from the well since the repair work on the casing was performed in November, 1992. I have also enclosed copies of the monthly injection reports filed with the Utah DOGM, showing the average of the monitored pressures each month. Additionally, Mr. Chuck Gardner, who is production foreman over the White River Unit, compiled a report relating to the pressures observed on the #19-9 well following shut-in of injection. This report is also attached for your records.

As shown by the pressure charts and monthly reports, the pressure on the 4-1/2" casing has changed very little during the cyclic injection of water into the well. Because this pressure is relatively constant and does not appear to be a function of injection pressure, it is my opinion that it represents gas pressure from upper zones which are in partial communication with the well bore, but which do not compromise the mechanical integrity of the injection string. Mr. Gardner's report indicates that this pressure will build up gradually, even while no injection is taking place, which further supports the argument that the backside pressure on the tubing is not due to a breach of injection mechanical integrity.

Flying J wishes to continue injection into the White River Unit for secondary recovery purposes. It is our intent to comply fully with the regulatory requirements of all the various agencies involved and we feel that we have done so at this time. We request the concurrence of the U.S. Environmental Protection Agency for our plans to plug the WRU #17-10 well and to continue water injection into the WRU #19-9 well. If any other information is necessary for this purpose, please contact the undersigned at the letterhead address and telephone number. Your consideration in this matter is greatly appreciated.

Sincerely,

John R. Baza
Senior Petroleum Engineer

Enclosures
cc: Ferron Secakuku
Norman Cambridge
Luke Duncan
Gil Hunt
Jerry Kenczka
Kreg Hill

wruinj2.jrb

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

NOV 12 1993

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RECEIVED
NOV 15 1993
DIVISION OF
OIL, GAS & MINING

Mr. John R. Baza
Flying J Oil & Gas Inc.
333 West Center Street
P.O. Box 540180
North Salt Lake, UT 84054-0180

RE: UNDERGROUND INJECTION CONTROL (UIC)
Approval of P & A Plan
White River Unit #17-10
EPA #UT2000-02548
Uintah County, Utah

43-047-15082
Sec 10 T8S R22E

Dear Mr. Baza:

We received your proposed plugging and abandonment plan for the above referenced well on October 28, 1993. The plan has been reviewed and approved as modified.

Within sixty (60) days from the date of plugging and abandonment operations, please submit EPA Form 7520-13, Plugging Record, showing the details as to how the well was actually plugged.

If you have any questions or comments, please contact Chuck Williams at (303) 293-1550 and direct all correspondence to the **Attention: Chuck Williams,** citing **MAIL CODE: 8WM-DW.** Thank you for your continued cooperation.

Sincerely,

Max H. Dodson, Director
Water Management Division

cc: Mr. Ferron Secakuku - Energy and Minerals, Ute Indian Tribe
Mr. Norman Cambridge - Uintah & Ouray Agency, BIA
Mr. Jerry Kenszka - BLM, Vernal, UT
Mr. Gil Hunt - State of Utah Natural Resources. Oil & Gas

FORM 10

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

JODIE FAULKNER
FLYING J EXPL & PROD INC
PO BOX 540180
N SLC UT 84504-0180

UTAH ACCOUNT NUMBER: N1190

REPORT PERIOD (MONTH/YEAR): 4 / 94

AMENDED REPORT ☐ **(Highlight Changes)**

Well Name / API Number / Entity / Location	Producing Zone	Well Status	Days Oper	Production Volumes OIL(BBL)	GAS(MCF)	WATER(BBL)
WHITE RVR U 15-9 (GRRV B P.A.) 4304715080 04915 08S 22E 9	GRRV			— U058		
WHITE RVR U 16-9 4304715081 04915 08S 22E 9	GRRV			"		
WHITE RVR U 20-9 4304715084 04915 08S 22E 9	GRRV			"		
WHITE RVR U 24-10 4304715085 04915 08S 22E 10	GRRV			"		
WHITE RVR U 27-10 4304715086 04915 08S 22E 10	GRRV			— U029649		
WHITE RVR U 25-9 4304715087 04915 08S 22E 9	GRRV			— U0971		
WHITE RIVER UNIT 46-9 4304731481 04915 08S 22E 9	GRRV			— U43915		
~~WHITE RIVER U 43-16~~ 4304731354 05170 08S 22E 16	GRRV		Sep. Chg. "Non Unit" wells.			
~~WHITE RIVER UNIT 45-16~~ 4304731399 09915 08S 22E 16	GRRV					
~~WHITE RIVER #47-10~~ 4304731561 10000 08S 22E 10	GRRV					
* WHITE RIVER UNIT 17-10 43047 15082 99996 8S 22E 10	GRRV	W/W		— U029649		
* WHITE RIVER UNIT 19-9 43047 15083 99996 8S 22E 9	GRRV	W/W		— U058		
			TOTALS			

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____

Name and Signature: _____ Telephone Number: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: WHITE RIVER UNIT #17-10

Field or Unit name: WHITE RIVER API no. 43-047-15082

Well location: QQ SWNW section 10 township 8S range 22E county UINTAH

Effective Date of Transfer: 6/1/94

CURRENT OPERATOR

Transfer approved by:

Name JAMES W. WILSON Company FLYING J OIL & GAS INC.

Signature [signature] Address P O BOX 540180

Title VICE PRESIDENT OPERATIONS NORTH SALT LAKE, UT 84054-0180

Date 8/4/94 Phone (801) 298-7733

Comments:

NEW OPERATOR

Transfer approved by:

Name Mitchell L. Solich Company CHANDLER & ASSOCIATES INC.

Signature [signature] Address 555 Seventeenth Street, #1850

Title Executive Vice-President Denver, CO 80202

Date 8/30/94 Phone (303) 295-0400

Comments:

(State use only)
Transfer approved by [signature] Title UIC Manager

Approval Date 9-15-94

(3/89)

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: WHITE RIVER UNIT

1. Type of Well: OIL ☐ GAS ☐ OTHER:

8. Well Name and Number:

2. Name of Operator: CHANDLER & ASSOCIATES, INC.

9. API Well Number:

3. Address and Telephone Number: 555 17th Street, #1850 Anaconda Tower, Denver, CO 80202/(303) 295-0400

10. Field and Pool, or Wildcat:

4. Location of Well
Footages: See below.
QQ, Sec.,T.,R.,M.:

County: UINTAH

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandonment	☐ New Construction	☐ Abandonment *	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☒ Other DESIGNATION AS OPERATOR			
Approximate date work will start		Date of work completion	

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

13 SW 6-13-94

Effective 6/X/94, Chandler & Associates, Inc. became operator of the White River Unit. Previous operator was Flying J Exploration & Production, Inc.
Wells included in the unit are:

WELL	LEGAL	API#
31-4	8S-22E-4: SWSE, SLM	43-047-15090 (PA'd)
15-9	9: NESE, "	43-047-15080
16-9	9: SWSE, "	43-047-15081
19-9	9: SWNE, "	43-047-15083 (WIW)
20-9	9: NESW, "	43-047-15084
25-9	9: NENE, "	43-047-15087
46-9	9: SESE, "	43-047-31481
17-10	10: SWNW, "	43-047-15082 (WIW)
24-10	~~10: NESW, "~~	~~43-047-15085~~
27-10	10: SWNE, "	43-047-15086

RECEIVED
JUN 14 1994

Name & Signature: CHANDLER & ASSOCIATES, INC. Mitchell A. Solich (Solich) Title: E.V.P. Date: 6/13/94

(This space for State use only)

(See Instructions on Reverse Side)

(1\93)

WELL STATUS REPORTS
UTAH STATE OFFICE

INSPECTION ITEM	API NO.	WELL NUMBER	QTQT	SEC	TWN	RNG	WELL STATUS	LEASE NAME	OPERATOR
** INSPECTION ITEM 8910035090		WHITE RIVER GR PARACHUTE							
8910035090	✓4304715082000D2	17-10	SWNW	10	8S	22E	WIW	UTU43918 WIW	FLYING J EXPLORATION COMP
8910035090	✓4304715084000D2	20-9	NESW	9	8S	22E	OSI	UTU058	FLYING J EXPLORATION COMP
8910035090	✓4304715090000S1	31-4	SWSE	4	8S	22E	WSW	UTU02520A PA'd 7/1/68	FLYING J EXPLORATION COMP
** INSPECTION ITEM 8910035098		WHITE RIVER WS A							
8910035098	4304715077000S1	3	NWNW	25	8S	22E	ABD	UTU0629 PA'd 12/93	FLYING J EXPLORATION COMP
** INSPECTION ITEM 8910035090		WHITE RIVER GR B							
8910035090	✓4304715080000S1	15-9	NESE	9	8S	22E	OSI	UTU43915	FLYING J EXPLORATION COMP
8910035090	✓4304715081000S1	16-9	SWSE	9	8S	22E	POW	UTU43915	FLYING J EXPLORATION COMP
8910035090	✓4304715082000D1	17-10	SWNW	10	8S	22E	WIW	UTU43918 WIW	FLYING J EXPLORATION COMP
8910035090	✓4304715083000S1	19-9	SWNE	9	8S	22E	WIW	UTU0971 WIW	FLYING J EXPLORATION COMP
8910035090	✓4304715084000D1	20-9	NESW	9	8S	22E	OSI	UTU43915	FLYING J EXPLORATION COMP
8910035090	✓4304715085000S1	24-10	NESW	10	8S	22E	OSI	UTU43915	FLYING J EXPLORATION COMP
8910035090	✓4304715087000S1	25-9	NENE	9	8S	22E	MW	UTU0971	FLYING J EXPLORATION COMP
8910035090	✓4304715086000S1	27-10	SWNE	10	8S	22E	POW	UTU43918	FLYING J EXPLORATION COMP
8910035090	✓4304731481000S1	46-9	SESE	9	8S	22E	POW	UTU43915	FLYING J EXPLORATION COMP

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: WHITE RIVER UNIT

1. Type of Well: OIL ☐ GAS ☐ OTHER:

8. Well Name and Number:

2. Name of Operator: FLYING J EXPLORATION & PRODUCTION, INC.

9. API Well Number:

3. Address and Telephone Number: P. O. Box 540180, North Salt Lake, UT 84054-0180/(801) 298-7733

10. Field and Pool, or Wildcat:

4. Location of Well
Footages: See below

County: UINTAH

QQ, Sec., T., R., M.:

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandonment	☐ New Construction	☐ Abandonment *	☐ New Construction
☐ Casing Repair	☐ Pull or Alter Casing	☐ Casing Repair	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Shoot or Acidize
☐ Conversion to Injection	☐ Shoot or Acidize	☐ Conversion to Injection	☐ Vent or Flare
☐ Fracture Treat	☐ Vent or Flare	☐ Fracture Treat	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other _____	
☒ Other RESIGNATION AS OPERATOR			
Approximate date work will start _____		Date of work completion _____	

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Effective 6/13/94, Flying J Exploration & Production, Inc. resigned as operator. The new operator is Chandler & Associates, Inc. DW 6-12-94

The wells included in the unit are:

WELL	LEGAL	API# (if known)
31-4	8S-22E-4: SWSE, SLM	43-047-15090
15-9	9: NESE, "	43-047-15080
16-9	9: SWSE, "	43-047-15081
19-9	9: SWNE, "	43-047-15083
20-9	9: NESW, "	43-047-15084
25-9	9: NENE, "	43-047-15087
46-9	9: SESE, "	43-047-31481
17-10	10: SWNW, "	43-047-15082
24-10	10: NESW, "	43-047-15085
27-10	10: SWNE, "	43-047-15086

RECEIVED JUN 14 1994

Name & Signature: James W. Wilson JAMES W. WILSON Title: VICE PRESIDENT OPERATIONS Date: 6/10/94

(This space for State use only)

(1\93)

(See Instructions on Reverse Side)

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 16, 1994

James W. Wilson
Flying J Exploration & Production Inc.
P. O. Box 540180
N. Salt Lake City, Utah 84504-0180

RE: Operator From Flying J E&P Inc. to Chandler & Associates
White River Unit 19-9 and White River Unit 17-10 Wells

Dear Mr. Wilson:

As discussed over the phone today, additional paperwork is required for the wells listed above, in order for the Division to grant a change of operator. Enclosed are copies of UIC Form 5 "Transfer of Authority to Inject". The form's need to be completed by both operators.

Should you have any questions regarding this matter, please contact me at (801)538-5340.

Sincerely,

Lc

Lisha Cordova
Administrative Analyst

Enclosure

* 940803 2nd Req. UIC F5. Lc

COPY

Bureau of Land Management
Branch of Fluid Minerals
P.O. Box 45155
Salt Lake City, Utah 84145-0155

July 29, 1994

Chandler & Associates, Inc.
555 17th Street
#1850 Anaconda Tower
Denver, Colorado 80202

RE: White River Unit
Uintah County, Utah

Gentlemen:

On July 28, 1994, we received an indenture dated June 13, 1994, whereby Flying J Oil & Gas Inc. resigned as Unit Operator and Chandler & Associates, Inc. was designated as Successor Unit Operator for the White River Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective July 29, 1994.

Your statewide (Utah) oil and gas bond No. 0969 will be used to cover all operations within the White River Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/S/ Robert A. Henricks
Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

cc: Flying J Oil & Gas Inc.

bcc: District Manager - Vernal (w/enclosure)
Division of Oil, Gas & Mining
Division of Lands and Mineral Operations
File - White River Unit (w/enclosure)
MMS - Data Management Division
Agr. Sec. Chron
Fluid Chron

U-922:TAThompson:tt:07-29-94

4RB

FLYING J OIL & GAS INC.
333 WEST CENTER STREET - P.O.BOX 540180 • NORTH SALT LAKE, UTAH 84054-0180
PHONE (801) 298-7733 • FAX (801) 298-9394

August 4, 1994

Chandler & Associates, Inc.
ATTN: Mr Mitchell T Solich
Executive Vice President
555 17th Street, Suite 1850
Denver, Colorado 80202

RE: Utah Division of Oil, Gas & Mining Transfers of Authority to Inject

Dear Mr. Solich:

Flying J Oil & Gas Inc. requests that you execute the enclosed Utah Division of Oil, Gas & Mining forms (UIC Form 5), authorizing the transfer of authority to inject water in the White River Unit wells #19-9 and #17-10. The Division of Oil, Gas & Mining has requested that Flying J submit these forms to finalize the transfer of the White River Unit to Chandler & Associates, Inc. Then, once executed, would you please return the forms to us so that we may file them appropriately with the Division of Oil, Gas & Mining? Thank you for your attention to this matter.

Sincerely,

James W. Wilson
Vice President, Operations

JWW/ehh

Enclosures
u:\users\product\chndlr.jww

FILE COPY

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1- ~~LEC~~ / GIL	✓
2- LWP ~~7-PL~~	✓
3- ~~DTS~~/8-SJ	✓
4- VLC ~~9-FILE~~	✓
5- RJF	✓
6- LWP	✓

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

XX Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-13-94)

TO (new operator)	CHANDLER & ASSOCIATES INC	FROM (former operator)	FLYING J EXPL & PROD INC
(address)	555 17TH ST 1850	(address)	PO BOX 540180
	DENVER CO 80202		N SLC UT 84504-0180
			JAMES WILSON, V.P. OPER.
	phone (303) 295-0400		phone (801)298-7733
	account no. N 3320		account no. N 1190

Well(s) (attach additional page if needed): ***WHITE RIVER UNIT**

Name: (SEE ATTACHMENT)	API: 047-15082	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 6-14-94)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 6-14-94)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

Lec 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (8-3-94 O&G wells only) (9-15-94 2/wiw)

Lwp 6. Cardex file has been updated for each well listed above. 9-16-94

Lwp 7. Well file labels have been updated for each well listed above. 9-16-94

Lec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (8-3-94 O&G wells Only) (9-15-94 2/wiw)

Lec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

LEC 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form). Entity 4915 "GREEN B P.A."

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

N/A/LEC 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files.

___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19___.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
DTS 9/20/94

N/A 2. Copies of documents have been sent to State Lands for changes involving **State leases**.

FILMING

✓ 1. All attachments to this form have been microfilmed. Date: September 23 19 94.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

940803 B'mc/S.Y. Approved eff. 7-29-94.

940803 Flying J / John Baza "Req. UIC F5 "Transfr. of Auth. to Inj". (Rec'd 9-15-94)

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
NOV 17 1994
DIV. OF OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
   ☐ Oil Well ☐ Gas Well ☒ Other Water Injection Well
2. Name of Operator
   Chandler & Associates, Inc.
3. Address and Telephone No.
   475 17th St, Ste 1000 Denver, Co 80202 (303) 295-0400
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
   SWNW (2010'FNL & 698'FWL)
   Section 10-T8S-R22E

5. Lease Designation and Serial No.
   U-43918
6. If Indian, Allottee or Tribe Name
   NA
7. If Unit or CA, Agreement Designation
   White River Unit
8. Well Name and No.
   17-10
9. API Well No.
   43-047-15082
10. Field and Pool, or Exploratory Area
    White River
11. County or Parish, State
    Uintah County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☒ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☒ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other _____	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1. MIRUSU. Lay down packer. Ran casing scraper to 5485'
2. Set CIBP @ 5485'KB.
3. Spot a 30sx cement plug on top of CIBP (250ft)
4. Perforate @ 3830' w/4 shots and 4 shots @ 250ft
5. Set cement retainer @ 3585'KB. Pump 115sx Class 'G'. Displaced w/17.5bbls water which left 15sx cement on top of retainer and 100sx @ 3830'.
6. Pump 105sx Class 'G' down casing and had returns out 8-5/8".
7. Pump cement down 5-1/2" to 6ft. RDSU.
8. Install dry hole marker.
9. Backfill cellar. Plugged and abandoned.

14. I hereby certify that the foregoing is true and correct

Signed _____ Title Manager-Production/Operations Date 10/17/94

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

BLM Received a copy 10/15/94 (JWS)

CUSTOMER	DATE	F.R.#	SER. SUP.	TYPE JOB
Chandler & Associates	10-15-94	286424	Jerry Meyer	P&A

LEASE & WELL NAME-OCSG	LOCATION	COUNTY-PARISH-BLOCK
White River 17-10	Sec 10-T 35 S-R 22E	Uintah

DISTRICT	DRILLING CONTRACTOR RIG #	OPERATOR
Vernal	Western Oilfield Service #22	Marvin

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP	TYPE OF PLUGS BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y	SQ MANI FOLD N	TOP OF EACH FLUID	SLURRY WGT PPG	SLURRY YLD FT³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
1st Plug												
30 sk			Class G Cement				15.8	1.14	4.9%		6	3.5
115 sk			G Cement				15.8	1.14	4.9%		23.3	13.6
105 sk											21.3	12.4
									TOTAL		50.6	29.5

Available Mix Water 100 Bbl. Available Displ. Fluid 200 Bbl.

HOLE SIZE	HOLE % EXCESS	HOLE DEPTH	TBG-CSG-D.P. SIZE	WGT.	TYPE	DEPTH	TBG-CSG-D.P. SIZE	WGT.	TYPE	DEPTH	COLLAR DEPTHS SHOE	FLOAT	STAGE
—	—	—	2 7/8	6.5		5485	5 1/2	15.5		5485	—	—	

LAST CASING SIZE	WGT	TYPE	DEPTH	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
5 1/2	15.5	J-55	5500	—	—	—	—	2 7/8	8 round	Form. H2O	8.4

CAL. DISPL. VOL.-Bbl. TBG.	CSG.	CSG.	TOTAL	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV	OP. MAX SQ. PSI	MAX TBG PSI RATED	OP.	MAX CSG PSI RATED	OP.	DISPL. FLUID TYPE	WGT.	WATER SOURCE
30			30	—	—	—			—	—	Form. H2O	8.4	Frac Tank

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL TIME HR: MIN.	PRESSURE-PSI PIPE	PRESSURE-PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: WPS CREW ☐ CO. REP ☐
						TEST LINES PSI
AM						CIRCULATING WELL-RIG ☐ WPS ☐
7:44	400		4	10		Start Fresh H2O
7:46	0		—	—		Shut down
7:49	0		2½	6		Start Cmt
7:53	200		3	2		Start displacement Fresh H2O
7:54	200		2.5	29		Start disp Formation H2O
8:06	0		—	0		Shut down
1:42	2500		.3	5		Injection Rate
1:57	0					Shut down Bleed off
2:08	2500		.3	11		Injection Rate
2:38	0					Shut down Bleed off
2:55	0	600	2	30		Inject Tru to Circulate hole
3:10	400	400				Shut down hooked up to tubing
3:15	2500		2	5		Fresh water Ahead
3:19	0		0			Mix tub & weighter CMT
3:40	2000		3	23		Start Cmt
3:48	1200		3	17		Start Displacement
3:53	2000		0	0		Shut down Stung out of Ret.
4:35	0		3	6		Fill hole
4:37	0		0	0		Shut down
4:40	0		3.2	21		Start Cement
4:50	0		0	0		Shut down

BUMPED PLUG Y N	PSI TO BUMP PLUG	TEST FLOAT EQUIP. Y N	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.	CUSTOMER REP.
Y N	—	Y N	164	½	0		Jerry Meyer	Jim Simineton

WCNA-1552 (6/90)